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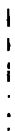


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U. S. DEPARTMENT OF AGRICULTURE,  
*U. S.* WEATHER BUREAU.

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## DAILY RIVER STAGES

AT RIVER GAGE STATIONS ON THE

# PRINCIPAL RIVERS OF THE UNITED STATES.

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### PART VII.

FOR THE YEARS 1900, 1901, 1902, 1903, AND 1904.

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PREPARED UNDER DIRECTION OF  
WILLIS L. MOORE,  
CHIEF OF BUREAU,  
BY  
H. C. FRANKENFIELD,  
PROFESSOR OF METEOROLOGY.



WASHINGTON:  
GOVERNMENT PRINTING OFFICE.  
1905.



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## INTRODUCTION.

This volume constitutes the seventh part of the series of river gage readings, the publication of which was begun by the Signal Service and has been continued by the Weather Bureau. The previous volumes are as follows:

- Part I. Stages of the Ohio River and of its Principal Tributaries, 1858 to 1889.
- Part II. Stages of the Mississippi River and of its Principal Tributaries, except the Ohio River, 1860 to 1889.
- Part III. Stages of water at Miscellaneous River Stations in California, Oregon, North Carolina, etc., 1875 to 1889.
- Part IV. Daily River Stages at River Gage Stations on the Principal Rivers of the United States for the Years 1890, 1891, and 1892.
- Part V. Daily River Stages at River Gage Stations on the Principal Rivers of the United States for the Years 1893, 1894, and 1895.
- Part VI. Daily River Stages at River Gage Stations on the Principal Rivers of the United States for the Years 1896, 1897, 1898, and 1899.

The river stages given are vertical heights in feet and tenths of a foot of the river surface above or below an arbitrarily assumed plane, which is approximately that of lowest water occurring at the place with a natural free flow of water. Abnormally low water due to an ice gorge above a station is not considered in establishing low water.

Observations of river stages are made as near 8 a. m., seventy-fifth meridian time, as the exigencies of the service will permit.

The tabulated gage readings are preceded by a statement which includes the locations of stations, descriptions of gages and bench marks, heights of danger lines, low-water and flood marks, and other data, for the various river stations whose gage readings are included in the tables. The gage readings are arranged by river systems, and are preceded by two indexes—one alphabetical with respect to the various river systems, and the second following the arrangement of the text. The former is useful in studying the regimen of any given river, while the latter enables ready reference to be made to any desired station.

River stations are maintained by the Weather Bureau for the purpose of making forecasts of river stages in the interest of navigation, and of issuing flood warnings in cases of dangerous rises. Daily gage readings are made at stations located on the various watersheds, and are collected by telegraph at 44 district centers. The preparation of river forecasts and warnings is intrusted to the officials of the Weather Bureau at those centers, under the supervision of the central office at Washington.

The district centers, and the territory covered by each, are given in the following table:

### DISTRICT CENTERS AND TERRITORIES.

Albany, N. Y.....	Hudson River watershed.
Atlanta, Ga.....	Watershed of the Apalachicola River.
Augusta, Ga.....	Savannah River watershed.
Boston, Mass.....	Rivers of New England.



## INTRODUCTION.

Cairo, Ill. <sup>a</sup> .....	Ohio River from below Louisville to mouth; Mississippi River from below St. Louis to Cairo; Wabash River; Tennessee River from below Bridgeport, Ala., to mouth.
Charleston, S. C.....	Rivers of South Carolina.
Chattanooga, Tenn. <sup>a</sup> .....	Tennessee River and tributaries from below Knoxville to Bridgeport, Ala.
Cincinnati, Ohio <sup>a</sup> .....	Ohio River and tributaries from below Parkersburg to the mouth of the Kentucky River.
Columbus, Ohio.....	Watersheds of the interior rivers of the State of Ohio.
Davenport, Iowa <sup>b</sup> .....	Mississippi River from below Dubuque to Muscatine, Iowa.
Des Moines, Iowa.....	Des Moines River at and above Des Moines.
Dubuque, Iowa <sup>b</sup> .....	Mississippi River from below Prairie du Chien, Wis., to Dubuque.
Fort Smith, Ark.....	Arkansas River watershed east of the State of Colorado.
Galveston, Tex.....	Watersheds of the interior rivers of the State of Texas except the Canadian River; Rio Grande from El Paso to mouth.
Grand Rapids, Mich.....	Rivers of Michigan.
Hannibal, Mo. <sup>b</sup> .....	Mississippi River at Hannibal and vicinity.
Harrisburg, Pa.....	Susquehanna River watershed.
Kansas City, Mo.....	Missouri River from the mouth of the Platte River to Kansas City; Kansas River and tributaries.
Keokuk, Iowa <sup>b</sup> .....	Mississippi River from below Muscatine, Iowa, to Quincy, Ill.; Des Moines River east of Des Moines.
Knoxville, Tenn. <sup>a</sup> .....	Tennessee River at Knoxville; Holston and French Broad rivers.
La Crosse, Wis. <sup>b</sup> .....	Mississippi River from Red Wing, Minn., to Prairie du Chien, Wis.
Little Rock, Ark.....	Arkansas River and tributaries below Fort Smith; White River of Arkansas.
Louisville, Ky. <sup>a</sup> .....	Ohio River from the mouth of the Kentucky River to Louisville; Kentucky River.
Macon, Ga.....	Watershed of the Altamaha River.
Memphis, Tenn. <sup>a</sup> .....	Mississippi River from below Cairo to Helena, Ark.; St. Francis River.
Meridian, Miss.....	Watersheds of the Pearl and Pascagoula rivers.
Minneapolis, Minn. <sup>b</sup> .....	Mississippi River at and above St. Paul.
Mobile, Ala. <sup>a</sup> .....	Watershed of the Tombigbee River.
Montgomery, Ala. <sup>a</sup> .....	Watershed of the Alabama River.
Nashville, Tenn. <sup>a</sup> .....	Watershed of the Cumberland River.
New Orleans, La. <sup>a</sup> .....	Mississippi River below Vicksburg; Red River below Shreveport; Ouachita and Atchafalaya rivers.
Omaha, Nebr.....	Missouri River from below Sioux City to the mouth of the Platte River.
Parkersburg, W. Va. <sup>a</sup> .....	Ohio River and southern tributaries from below Wheeling, W. Va., to Parkersburg.
Philadelphia, Pa.....	Delaware River watershed; rivers of New Jersey.
Pittsburg, Pa. <sup>a</sup> .....	Allegheny and Monongahela watersheds; Ohio River from Pittsburg to Wheeling, W. Va.
Portland, Oreg.....	Columbia River watershed.
Raleigh, N. C.....	Rivers of central and eastern North Carolina and their tributaries.
Richmond, Va.....	James River watershed.
St. Louis, Mo. <sup>a</sup> .....	Mississippi River from below Quincy, Ill., to St. Louis, except at Hannibal and vicinity; Missouri River east of Kansas City; Illinois River.
San Francisco, Cal.....	Rivers of California.
Shreveport, La. <sup>a</sup> .....	Red River at and above Shreveport.
Sioux City, Iowa.....	Missouri River and tributaries at and above Sioux City.
Vicksburg, Miss. <sup>a</sup> .....	Mississippi River from below Helena, Ark., to Vicksburg; Yazoo River.
Washington, D. C.....	Potomac River watershed.

Following the descriptive text are given tables of elevations of zeros of river gages above mean sea level, danger-line stages, and the lengths of the rivers and their drainage areas.

<sup>a</sup> Forecasts made daily throughout the year.

<sup>b</sup> Forecasts made daily during season of navigation and in times of flood. Unmarked stations make forecasts only during times of flood or of exceptionally low water.

## LOCATIONS OF RIVER STATIONS, DESCRIPTIONS OF GAGES AND BENCH MARKS, HEIGHTS OF DANGER LINES, ELEVATIONS, LOW WATERS, AND FLOOD MARKS.

### ABBEVILLE, GEORGIA.

Abbeville, Ga. Established May 5, 1903. Is on the Ocmulgee River, 96 miles above its confluence with the Oconee River. The width of the river at average low water is 250 feet. The drainage area above the station is 4,585 square miles.

The river gage, which belongs to the Weather Bureau, is attached to the elevator frame of the Seaboard Air Line wharf, being fastened to 8 by 8 inch timbers on the upstream side of the wharf. It is made of 1½ by 12 inch heart pine, painted white with graduations burned into the wood and afterwards painted black. Even feet are also shown by brass figures.

Bench mark, 20-penny wire nail on sycamore tree, 10 inches in diameter, at northeast corner of Seaboard Air line wharf, is 15.7 feet above zero of the gage, and 179.5 feet above mean sea level. United States Engineer Corps B. M. 20, an "X" cut on rivet head at bottom of third plate from top on north side of north iron pier at west end of railroad bridge, is 12.9 feet above zero of the gage, and 176.7 feet above mean sea level.

Graduation extends from 1 foot below to 25 feet above zero. Highest water was 17.1 feet on March 5, 1902. The Harrison freshet of 1841 and the freshets of 1886 and 1887 were about equal to that of 1902. Lowest water of record, - 1 foot, on June 17, 1898. Danger line is at 11 feet.

### ABILENE, KANSAS.

Abilene, Kans. Established August 1, 1904. Is on the Smoky Hill River, 45 miles from its mouth. The width of the river at average low water is 140 feet. The drainage area above the station is 18,718 square miles.

The river gage, which belongs to the Weather Bureau, is located on the northwest quarter of the northeast quarter of section 23, township 13, range 1 east of the sixth principal meridian; 20 feet southwest of the stone wall (well), inclosing Sand Springs at the Abilene waterworks pumping station, 4 miles west of the town of Abilene. It is in two sections. The first section (2 to 12 feet) is inclined and extends from the foot of the tree to which the second section is attached down to the 2-foot mark above absolute low water. It is made of 6 by 6 inch pine timber, and is graduated with brass figures and copper tacks. The second section (12 to 25 feet) is bolted to a large cottonwood tree, standing halfway down the left bank of the river. It is made of 2 by 6 inch pine timber, and is graduated with brass figures and copper tacks.

Top of south rail of Atchison, Topeka and Santa Fe Railway track at Abilene waterworks pumping station is 27.1 feet above zero of the gage, and 1,155.8 feet above mean sea level. High-water mark, spike driven into cottonwood tree near southeast corner of pump house is 27.3 feet above zero of the gage, and 1,156 feet above mean sea level. Top of south rail of Union

Pacific Railroad track at crossing to same pump house is 28.5 feet above zero of the gage, and 1,157.2 feet above mean sea level.

Graduation extends from 2 to 25 feet above zero. Highest water was 27.3 feet, on May 29, 1903; lowest, unknown. Danger line is at 22 feet.

#### ALAGA, ALABAMA.

Alaga, Ala. Established October 1, 1904. Is on the Chattahoochee River, 30 miles from its junction with the Flint River, and 60 miles below Eufaula, Ala. The width of the river at average low water is 300 feet. The drainage area above the station is 8,783 square miles.

The river gage, which belongs to the Weather Bureau, is a chain and weight gage of the United States Geological Survey pattern, and is located on the upstream side of the Atlantic Coast Line bridge over the Chattahoochee River near Alaga. The gage box is attached to the cross-ties just outside the guard rail, and an extension scale is provided.

Top of rail, upstream side, on Atlantic Coast Line bridge, on which gage is located, is 32 feet above zero of the gage, and 109.3 above mean sea level.

Graduation extends from 1 foot below to 34 feet above zero. Highest water, unknown; lowest of record, 1.7 feet, on October 18, 1904. Danger line is at 25 feet.

#### ALBANY, GEORGIA.

Albany, Ga. Established April 1, 1892. Is on the Flint River, 90 miles from its mouth, and 61 miles above Bainbridge, Ga. The width of the river at average low water is 300 feet. The drainage area above the station is 5,214 square miles.

The river gage, which belongs to the Weather Bureau, was installed on June 18, 1902. It is located at the foot of Broad street, just above the county bridge, and consists of three sections. The first (0 to 4 feet) is spiked to a wooden crib around the middle pier of the bridge; the second (2 to 17 feet) is attached to a cypress tree on the west bank of the river, just above the bridge; the third (17 to 32 feet) is spiked to a cedar post near the second section, but higher up on the bank. All are made of 2 by 6 inch white pine, and are painted white. Graduations are made with brass figures and copper tacks.

The zero of the new gage was set 0.8 foot lower than that of the old one; consequently 0.8 foot should be added to all readings previous to June 18, 1902, to reduce to the zero of the new gage. This correction has been applied to the highest and lowest stages given below.

Copper plug set in downstream corner of brick abutment on right bank, under Dougherty County highway bridge, and near the river gage, is 33.8 feet above zero of the gage and 174.8 feet above mean sea level.

Top of rail in front of Atlantic Coast Line depot is 43 feet above zero of the gage and 184 feet above mean sea level. Bench mark cut in lower iron pier of county bridge is 10 feet above zero of the gage and 151 feet above mean sea level. Another bench mark, spike in corner of Mase & Co.'s warehouse, corner Broad and Front streets, is 55.7 feet above zero of the gage, and 196.7 feet above mean sea level.

Graduation extends from zero to 32 feet above. Highest water was 32.4 feet, on March 25, 1897; lowest, -0.4 foot, on October 26-28, 1904. Danger line is at 20 feet.

#### ALBANY, NEW YORK.

Albany, N. Y. River observations began February 21, 1903. Is on the Hudson River, 147 miles from its mouth and 8 miles above Castleton, N. Y. The width of the river at average low water is 1,295 feet. The drainage area above the station is 8,800 square miles.

The river gage, which belongs to the Weather Bureau, was installed on January 1, 1903. It is located at the tide house of the United States Engineer Corps, on the docking piles outside the State street bridge. It is made of 1½ by 6 inch pine timber, and is painted white with graduations in black. The 6-foot mark is at the bottom of the diagonal brace to the northeast pile; the 10-foot mark is a nail driven into the bottom of telegraph pole at the foot of State street and at entrance to gangway leading to Piepinbrink's float.

Bench mark, ⊕, cut in window sill of post-office building, near corner of State and Dean streets, is 18 feet above zero of gage and 18.2 feet above mean sea level. Zero of gage corresponds to plane of mean low water of 1876.

Bench mark (U. S. W. B., 1904), bronze plate in southeast corner of United States Government building on Dean street side, is 24.8 feet above zero of the gage and 25 feet above mean sea level.

Graduation extends from zero to 24 feet above. Highest water was 21.2 feet, on February 9, 1857; lowest, -2 feet, on September 18, 1900. Danger line is at 12 feet.

#### ALBANY, OREGON.

Albany, Oreg. Established January 1, 1892. Is on the Willamette River, 118 miles from its mouth and 34 miles above Salem, Oreg. The width of the river at average low water is 500 feet. The drainage area above the station is 4,980 square miles.

The river gage, which belongs to the Weather Bureau, is located on pier No. 2 of the county steel wagon bridge over the Willamette River at the north end of Calapooia street. It consists of black graduations on a white ground, painted on the steel casing of the pier. There is a channel depth of 8 feet with a zero gage reading. Navigation is suspended at a zero stage, as there are gravel bars both above and below Albany.

United States Geological Survey bench mark, 124 feet north of center of Southern Pacific Railroad track, is 41 feet above zero of the gage and 212 feet above mean sea level.

Graduation extends from 3 feet below to 37 feet above zero. Highest water was 36 feet, on December 8, 1861; lowest, 0.2 foot, on September 21, 1879. Danger line is at 20 feet.

#### ALEXANDRIA, LOUISIANA.

Alexandria, La. Established in 1885. Is on the Red River, 118 miles from its mouth. The distance to New Orleans is 434 miles. The width of the river at average low water is 705 feet. The drainage area above the station is 63,300 square miles.

The river gage, which belongs to the United States Engineer Corps, is situated at the foot of Washington street, which is the first street above the court-house. It is made of wood, with graduations burned in, and is in 8 sections. The first (-2 to 6 feet) is spiked to an 8-inch pile just below first pier from the Alexandria side of new highway bridge and above ferry landing; sections 2 (5 to 10 feet) and 3 (10 to 14 feet) are spiked to an old wrecked barge embedded in the sand just below ferry landing; sections 4 (13.5 to 21 feet), 5 (18 to 22 feet), 6 (21.5 to 27 feet), 7 (27 to 33 feet), and 8 (32.5 to 39 feet) are spiked to uprights supporting roadway running down to Pineville ferry landing.

Bench mark No. 3 (Merrill, 1872), top projecting course of bricks in foundation of court-house at extreme east corner, is 35.5 feet above zero of the gage, and 79.7 feet above mean sea level. Bench mark 4 (Miller, 1883), top surface of east corner of lower iron plate of iron pedestal of southeast pillar of vestibule of Alexandria court-house (river entrance) is 37.9 feet above zero of the gage and 82.1 feet above mean sea level.

Graduation extends from zero to 39 feet above. Highest water was 38.2 feet, on June 13, 1892; lowest, -3.7 feet, on September 29, 1881. Danger line is at 33 feet.



## ARKANSAS CITY, ARKANSAS.

Arkansas City, Ark. Established in 1885. Is on the Mississippi River, 635 miles from its mouth and 40 miles above Greenville, Miss. The width of the river at average low water is 3,500 feet. The drainage area above the station is 1,125,000 square miles.

The river gage, which belongs to the United States Engineer Corps, was rebuilt in November, 1903. It is a wooden gage and is in 7 vertical sections, all made of 2 by 6 inch cypress timber, with graduations cut into the wood. The first section (9 to 14 feet) is attached to a post 328 feet above the railroad station. The second (14 to 19 feet) is fastened to one of a cluster of four piles, 984 feet above the railroad station; the third (19 to 26 feet) is attached to a 30-inch post, directly in front and east of the fourth section; the fourth (26 to 32 feet) is attached to one of a cluster of piles 50 feet east of the fifth section; the fifth (32 to 41 feet) is attached to a 15-inch willow tree, 100 feet east of the sixth section; the sixth (41 to 50.2 feet) is attached to a 16-inch cypress pile at the base of the levee and 100 feet east of the railroad station; the seventh (49 to 55 feet) is attached to a 14-inch cypress pile, immediately adjoining the sixth section.

P. B. M. F. (C. and G. S.) is bottom of square cavity (0.03 foot deep), cut in top of 6 by 6 inch stone post set in ground, about 2 meters south of south face of small house at inner base of levee and railroad embankment. House is first one southwest of the railroad station, and bench mark is 79 meters below lower end of station. It was formerly the tool house of the Little Rock, Mississippi River and Texas R. R.; U. S. cut in top of stone. Elevation above zero of gage, 42.4 feet; above mean sea level, 137.6 feet. Bench mark,  $\frac{2}{3}$  is top of stone post in woods, 1,378 feet north of railroad shop below Arkansas City. It is 820 feet from edge of woods, near large burnt oak stump, and also large gum tree blazed with triangle facing stone. Elevation above zero of gage, 40 feet; above mean sea level, 135.2 feet.

B. M. A. (Wolbrecht, 1900), top surface of large railroad spike driven vertically into downstream root of large elm tree, 4.5 feet southeast of P. B. M. F., above described, is 42.7 feet above zero of the gage and 137.9 feet above mean sea level.

Graduation extends from 9 to 55 feet above zero. Temporary sections are provided when the water falls below 9 feet. Highest water was 53 feet, on March 27 and 28, 1903; lowest, -3.3 feet, on November 9, 1895. Danger line is at 42 feet.

A new gage will be installed by the Weather Bureau in 1905.

## ARLINGTON, MISSOURI.

Arlington, Mo. Established March 7, 1885; closed July 2, 1901, and reopened August 16, 1904. Is on the Gasconade River, 98 miles from its mouth and 106 miles from Hermann, Mo., on the Missouri River. The width of the river at average low water is 255 feet. The drainage area above the station is 2,800 square miles.

The river gage, which belongs to the Weather Bureau, is a new one of the chain and weight pattern of the United States Geological Survey, and is located on the St. Louis and San Francisco Railroad bridge over the Gasconade River.

Top of rail in front of Jerome, Mo., station of St. Louis and San Francisco Railroad, on opposite side of river, is 33 feet above zero of the gage and 694.8 feet above mean sea level. Top of rail on bridge on which gage is located is 28.5 feet above zero of the gage and 690.3 feet above mean sea level.

Graduation extends from 2 feet below to 28 feet above zero. Highest water was 26.5 feet, on January 5, 1897; lowest, -2.7 feet; date unknown. Danger line is at 16 feet.

## ARTHUR CITY, TEXAS.

Arthur City, Tex. Established January 31, 1891. Is on the Red River, 688 miles from its mouth and 74 miles above Kiomache, Tex. The width of the river at average low water is 450 feet and at bank-full stage 1,000 feet. The drainage area above the station is 40,200 square miles.

A new river gage was installed by the Weather Bureau on January 15, 1901, and another on November 26, 1904. The latter gage is in two vertical sections. The first section (0 to 2.6 feet) is attached to a piece of scantling driven into the river bottom near the Arthur City end of the railroad bridge. The second section (2.6 to 40.5 feet) is attached to the downstream end of the first concrete pier, from the Arthur City side, of the Paris and Great Northern Railroad bridge. Both sections are made of 2 by 8 inch pine timber, painted white, with graduations burned into the wood and painted black.

Bench mark, rock with 12-foot smooth, square surface, lying in river about 300 feet south-east of Paris and Great Northern Railroad bridge, is 0.3 foot above zero of the gage and 363.4 feet above mean sea level. Base of rail on bridge above gage is 48 feet above zero of the gage and 411.1 feet above mean sea level.

Graduation extends from zero to 40.5 feet above; 41 and 42 footmarks are indicated by black-painted crosses on concrete shoulder of pier just above gage. Highest water was 37 feet, on May 10, 1890; lowest, 2.1 feet, in November and December, 1897. Danger line is at 27 feet.

## ASHEVILLE, NORTH CAROLINA.

Asheville, N. C. River observations began March 19, 1903. Is on the French Broad River, 144 miles from its mouth and 74 miles above Leadvale, Tenn. The width of the river at average low water is 353 feet. The drainage area above the station is 903 square miles.

A new river gage was installed by the Weather Bureau on November 1, 1904. It is a chain and weight gage of the United States Geological Survey pattern, and is attached to the guard rail of Smith's highway bridge over the French Broad River, between the third and fourth piers from the eastern approach.

Bench mark, cross (+) cut in upper surface of coping of the pier, to which old gage is attached, is 19.8 feet above zero of the gage and 1,983.1 feet above mean sea level. Top of rail in front of Southern Railway depot is 22.7 feet above zero of the gage and 1,986 feet above mean sea level.

Graduation extends from 2 feet below to 13 feet above zero. Highest water was 10.6 feet, date unknown. Danger line is at 6 feet.

## AUGUSTA, GEORGIA.

Augusta, Ga. River observations began May 11, 1886. Is on the Savannah River, 268 miles from its mouth. The width of the river at average low water is 560 feet. The drainage area above the station is 7,294 square miles. The river gage, which belongs to the city of Augusta, is located on the west face of the upstream side of the second brick pier from the Georgia side of the city bridge, and is made of 2 by 8 inch oak timber in two sections. The first section (0 to 11 feet) rests on a collar of the rock base of the pier. The second section (11 to 39 feet) rests on the top of the rock foundation of the pier, slightly back of the first section. Both sections are painted white, with black graduations in feet and inches. Zero of the gage is low-water mark of 1835.

Bench mark, stone pavement opposite south door of No. 212 Seventh street, is 34.7 feet above zero of the gage and 135.1 feet above mean sea level. Top of iron door sill at No. 212 Seventh street is 35.2 feet above zero of the gage and 135.6 feet above mean sea level. Center of corner

stone, northeast corner of Fifteenth and Broad streets, is 37.8 feet above zero of the gage and 138.2 feet above mean sea level.

There is another city gage at the Georgia shore of the bridge of similar construction and graduation that is used for stages above 25 feet.

Graduation extends from zero to 39 feet above. Highest water was 38.7 feet on September 11, 1888; lowest, 0.0 in 1835. Danger line is at 32 feet.

#### AUSTIN, TEXAS.

Austin, Tex. Established July 1, 1903. Is on the Colorado River, 214 miles from its mouth and 116 miles above Columbus, Tex. The width of the river at average low water is 1,200 feet. The drainage area above the station is 37,000 square miles.

A new river gage was installed by the Weather Bureau on April 26, 1904. It is a chain and weight gage of the United States Geological Survey pattern and is located on the Congress avenue highway bridge, being attached to a wooden girder on the east or Austin side of the river, between the north abutment and the first pier.

Copper bolt set in west end of south rock pier of Congress avenue wagon bridge is 48 feet above zero of the gage and 475 feet above mean sea level.

Graduation extends from 1 foot below to 39 feet above zero. Highest water was 34.7 feet on April 7, 1900; lowest 0.7 foot on September 4, 1904. Danger line is at 18 feet.

#### BAGNELL, MISSOURI.

Bagnell, Mo. Established December 1, 1893. Is on the Osage River, at the mouth of Little Gravois Creek, and is 70 miles from the mouth of the Osage. The distance to Hermann, Mo., on the Missouri River, is 105 miles. The width of the river at average low water is 575 feet. The drainage area above the station is 14,231 square miles.

The river gage, which belongs to the Weather Bureau, is in two sections. The first (0 to 35 feet) is made of 3 by 10 inch oak timber and is inclined. It is bolted to red cedar posts, the upper one of which forms the second section of the gage (35 to 36 feet). Both sections are painted white, with graduations burned in and afterwards painted black.

High-water mark of December 22, 1895, three wire nails driven into southeast corner of Brockman's drug store at foot of Water street. Elevation above zero of gage, 35.7 feet; above mean sea level, 593.8 feet.

Another bench mark consists of two wire nails driven into stump of limb of a white-oak tree. Limb is cut close to trunk of tree and about 1 foot above ground. The tree is situated between northeast bank of Little Gravois Creek and northwest bank of the Osage River and at top of slope to creek. It is 20 feet southwest of the gage. Elevation above zero of gage, 34 feet; above mean sea level, 592.1 feet.

Graduation extends from 1 foot below to 37 feet above zero. Highest water was 35.7 feet on December 22, 1895; lowest, 0.7 foot, from October 27 to November 1, 1894. Danger line is at 28 feet.

#### BAINBRIDGE, GEORGIA.

Bainbridge, Ga. Established October 1, 1904. Is on the Flint River, 29 miles from its junction with the Chattahoochee River and 109 miles from the mouth of the Apalachicola River. The width of the river at average low water is 360 feet. The drainage area above the station is 7,407 square miles.

The river gage, which belongs to the Weather Bureau, is a chain and weight gage of the United States Geological Survey pattern, and is located on the upstream side of the county

bridge over the Flint River, being attached to the top hand rail between the first and second piers. An extension scale beyond the gage box is also provided.

Bench mark, southwest corner of pedestal of Hughes monument, is 68.7 feet above zero of the gage, and 121.5 feet above mean sea level. Floor of county bridge on which gage is located, upstream side, over center pier, is 34 feet above zero of the gage, and 86.8 feet above mean sea level.

Graduation extends from 1 foot below to 36 feet above zero. Highest water was 34.6 feet on March 26, 1897; lowest 1.4 feet on November 1, 1904. Danger line is at 22 feet.

#### BALLINGER, TEXAS.

Ballinger, Tex. Established July 1, 1903. Is on the Colorado River, about 489 miles from its mouth and about 275 miles above Austin, Tex. The width of the river at average low water is 134 feet. The drainage area above the station is 8,500 square miles.

The river gage, which belongs to the Weather Bureau, is located at the foot of the Gulf, Colorado and Santa Fe Railway bridge, and is in two sections. The first (0 to 12 feet), is made of 2 by 12 inch pine timber, and is attached to a pile driven into the bed of the river. It is painted white, with graduations burned in and painted black. The second section (12 to 32 feet) is painted on a stone pier of the bridge.

Bench mark, top of coping of bridge, is 32 feet above zero of gage, and 1,628.2 feet above mean sea level.

Graduation extends from zero to 32 feet above. Highest water was 21.4 feet in 1888; lowest since establishment of station, 0.7 foot on August 13, 1903. Danger line is at 21 feet.

#### BANGOR, MAINE.

Bangor, Me. Established November 1, 1902. Is on the Penobscot River, 27 miles from its mouth. The width of the river at average low water is 935 feet. The drainage area above the station is 7,910 square miles; that above Oldtown, Me., 7,240 square miles.

The river gage, which is the property of the city of Bangor, is nailed to a wooden pier serving as a breakwater, 239 feet upstream from the crest of the dam. The pier extends about 25 feet into the river. Gage consists of a board painted white, with graduations in black. Readings indicate number of feet of water running over dam above referred to.

Graduations are in feet and inches, and extend from 0.5 foot to 13 feet above zero. When the water reaches the top of dam, it corresponds to a stage of 12.2 feet. Mean height of tide at Bangor below the dam is 13.1 feet.

#### BATESVILLE, ARKANSAS.

Batesville, Ark. Established August 1, 1904. Is on the White River, 217 miles from its mouth and 32 miles above Newport, Ark. The width of the river at average low water at the crest of the dam is 660 feet. The drainage area above the station is 11,557 square miles.

The river gage, which belongs to the United States Engineer Corps, is located at Lock No. 1, about 1 mile below Batesville and on the north side of the river. It is the lower of two gages built at that lock, and is known as the "Lower miter sill gage." It gives the open river stages and is in three sections. The first section (0 to 29 feet) is molded in the concrete river wall at the lower tail bay of the lock, and constitutes a portion of the same. The second section (24.6 to 37.5 feet) is inclined, and is built on the bank, 110 feet below the lock. It consists of 8 by 8 inch pine timbers, fastened with bolts to bowlders, and is painted white, with graduations cut into the wood and painted black. The third section (37 to 42 feet) is fastened to the upstream

side of a post oak, standing on the edge of the bank, 18 feet below the second section. It consists of a perpendicular plank, painted white, with graduations cut into the wood and painted black.

Iron pipe on top of upstream end of bank side of lock wall is 29 feet above zero of the gage and 261.2 feet above mean sea level.

Graduation extends from zero to 42 feet above. Highest water was 41 feet in May, 1898. Danger line is at 18 feet.

#### BATON ROUGE, LOUISIANA.

Baton Rouge, La. Established July 1, 1903. Is on the Mississippi River, 240 miles from its mouth and 52 miles above Donaldsonville, La. The drainage area above the station is 1,230,350 square miles.

The river gage, which belongs to the United States Engineer Corps, is located in front of the town, at the foot of North boulevard. It is made of cypress timber, and is in four sections, three vertical and one inclined. The first (12.5 to 15.5 feet) is vertical and is fastened to a pile; the second (15.5 to 26 feet) is inclined and is laid along the ground; the third (25.6 to 28.8 feet) is vertical and is nailed to a willow tree; the fourth (28 to 41 feet) is vertical and is fastened to a pile of the M. R. C. Coal and Coke Company, at the base of the levee, and at the foot of Convention street. The entire gage is painted white, with graduations burned in and painted black. Below 12.5 feet only a temporary gage is provided.

B. M. A. (Ewens, 1900) is a cross cut thus, "X," on top surface of window sill, upstream side of downstream window in front wall of pump house of waterworks. It is 41.3 feet above zero of the gage, and 40.9 feet above mean sea level. P. B. M. 1 is a square cut on north end of lowest granite step of west entrance to State Capitol building, Baton Rouge. It is 4 inches from the front of the step, and 4 inches from balustrade. Elevation above zero of gage, 60.8 feet; above mean sea level, 60.4 feet. P. B. M. XXXI, United States Engineers, is top edge of marble foundation stone under center of west side of tower on north side of west entrance to State Capitol building at Baton Rouge. It is directly under round window in west face of tower, 27 inches above ground, 5 inches above top of foundation stone, directly over and 29 millimeters above the horizontal furrow of mark ( $\nabla$ ) cut in face of stone. The edge is at base of molding cut in stone. Elevation above zero of gage, 62.6 feet; above mean sea level, 62.2 feet.

Graduation extends from 12.5 to 41 feet above zero. Highest water was 40.6 feet on May 13-15, 1897; lowest, 0.4 foot on November 14, 1894. Danger line is at 35 feet.

A new gage will be installed by the Weather Bureau during 1905.

#### BEARDSTOWN, ILLINOIS.

Beardstown, Ill. Established in 1885. Is on the Illinois River, 70 miles above its junction with the Mississippi River. The distance to Grafton, Ill., on the Mississippi, is 72 miles. The width of the river at average low water is 975 feet. The drainage area above the station is 24,700 square miles.

The river gage, which belongs to the Chicago, Burlington and Quincy Railway, is attached to the south side of the channel pier of the Chicago, Burlington and Quincy Railway bridge over the Illinois River. It is attached to one of a long row of piles, and is made of 3 by 8 inch hard pine, with graduations cut into the wood and painted black.

P. B. M. 26, top of copper bolt leaded vertically in top of stone doorstep of main entrance to Odd Fellows brick building, southeast corner of Main and Washington streets, near north

U. S.

end of step, and marked  $\bigcirc$ , is 24.1 feet above zero of the gage, and 44.3 feet above mean sea level.  
P. B. M.

P. B. M. 27, top of copper bolt leaded vertically into top of stone doorstep of main entrance to First State Bank building, northwest corner of Main and State streets, near south end of step, U. S.

and marked  $\bigcirc$ , is 23.4 feet above zero of the gage, and 443.6 feet above mean sea level.

P. B. M.

T. B. M. 124, boat spike in notch on root on west side of sycamore tree, 2.8 feet in diameter, one of a row of shade trees on southeast side of Second street, 177.5 feet northeast from center of main track of Chicago, Burlington and Quincy Railway, is 23.4 feet above zero of the gage, and 443.6 feet above mean sea level.

Graduation extends from zero to 24 feet above. Highest water was 22.5 feet in the spring of 1844; lowest, 0.0 on August 11 and 12, 1887. Danger line is at 12 feet.

#### BEATTYVILLE, KENTUCKY.

Beattyville, Ky. Established May 1, 1902. Is on the Kentucky River, at the junction of the North and South forks, 254 miles from its mouth, and 137 miles above Highbridge, Ky. The width of the river at average low water is 190 feet. The drainage area above the station is 1,654 square miles.

The river gage, which belongs to the United States Engineer Corps, is located on a trestle of the Louisville and Atlantic Railroad, crossing a ravine about 200 yards south of the depot. Trestle is made of wooden piling, and is about 50 feet east of the river at low-water mark. Gage is made of 2 by 8 inch timber, painted white, with graduations cut in and painted black.

Graduation is in feet and quarter feet, and extends from 3 to 32 feet above zero. Highest water since establishment of station was 37.5 feet on March 1, 1903; lowest, -1.7 feet on October 27-November 20, 1904. Danger line is at 30 feet.

#### BEAUMONT, TEXAS.

Beaumont, Tex. Established July 1, 1903. Is on the Neches River, about 18 miles from its mouth. The width of the river at average low water is 310 feet. The drainage area above the station is 11,500 square miles.

A new river gage was installed by the Weather Bureau on April 27, 1904. It is a chain and weight gage of the United States Geological Survey pattern, and is attached to the guard rail of the Texas and New Orleans Railroad bridge over the Neches River.

Top of rail on Texas and New Orleans Railroad bridge on which gage is located is 21.3 feet above zero of the gage, and 20.3 feet above mean sea level.

Graduation extends from 2 feet below to 20 feet above zero. Highest water of record was 10 feet in January, 1903; lowest since establishment of station, -1 foot on January 3 and February 11, 1904. Danger line is at 10 feet.

#### BEAVER DAM (LOCK NO. 6), PENNSYLVANIA.

Beaver Dam, Pa. Is on the Ohio River, 925 miles from its mouth, and 50 miles above Wheeling, W. Va. It is also 5 miles below the mouth of Beaver River. The drainage area above the station is 20,274 square miles.

The river gage was constructed and is maintained by the United States Engineer Corps, which furnishes the gage readings to the Weather Bureau. The gage is made of wood and is in two sections. The first section (0 to 14 feet), is on the stone protecting crib in the river; the second (14 to 37 feet), is attached to the power-house foundation. Temporary extensions are provided for stages above 37 feet.

The top of the river wall is 18.1 feet above zero of the gage, and 674 feet above mean sea level.

Graduation extends from zero to 37 feet above. Highest water was 43 feet on March 2, 1902; lowest, 0.6 foot on September 6, 1894. Danger line is at 27 feet. At a zero stage there is 1 foot of water in the channel.

#### BELLOWS FALLS, VERMONT.

Bellows Falls, Vt. Established November 1, 1902. Is on the Connecticut River, 170 miles from its mouth, and 86 miles above Holyoke, Mass. The width of the river at average low water is 510 feet. The drainage area above the station is 5,726 square miles.

The river gage, which belongs to the Bellows Falls Canal Company, is located on the southwest abutment of bridge No. 121, of the Rutland Railroad Company, over the canal at Bellows Falls. It is a 1 by 6 inch pine plank, painted white, with black graduations.

Top of rail in front of Boston and Maine Railroad depot is 21 feet above zero of the gage, and 304 feet above mean sea level. Zero of gage corresponds with crest of the dam.

Graduation extends from 2 feet below to 16 feet above zero. Highest water of record was 18.5 feet on April 15, 1895, and March 3, 1902; lowest, -0.5 foot on December 5, 1903. Danger line is at 12 feet.

#### BELOIT, KANSAS.

Beloit, Kans. Established August 1, 1904. Is on the Solomon River, 75 miles from its mouth. The width of the river at average low water is 100 feet. The drainage area above the station is 5,539 square miles.

The river gage, which belongs to the Weather Bureau, is located on the east side of the iron highway bridge over the Solomon River, about 500 feet below the dam of the Beloit Milling Company, and is attached to the iron railing. It is a chain and weight gage of the United States Geological Survey pattern, with a 10-foot extension scale.

Bench mark (—), cut in stone at southeast corner of Beloit Milling Company's building, 1.5 feet above ground, and 1.5 feet below where the frame structure begins, is 35.5 feet above zero of the gage. Top of iron railing of bridge on which gage is located is 36 feet above zero of the gage.

Graduation extends from zero to 25 feet above. Highest water was 31.2 feet on May 30, 1903; lowest, 0.0, date unknown. Danger line is at 16 feet.

#### BINGHAMTON, NEW YORK.

Binghamton, N. Y. River observations began April 1, 1902. Is on the North Branch of the Susquehanna River, 183 miles from its mouth and 44 miles above Towanda, Pa. The width of the river at average low water is 476 feet. The drainage area above the station is 3,982 square miles, of which 1,534 square miles belong to the Chenango River watershed.

The river gage, which belongs to the United States Geological Survey, is the standard chain and weight gage of that Bureau, and the gage box is attached horizontally to the lattice ironwork on the upstream side of the south or left-hand span of the Washington street bridge over the Susquehanna River. It is about 400 feet above the mouth of the Chenango River.

Bench mark, chisel draft on corner coping upstream side of south or left-hand bridge abutment of Washington street bridge, is 23.7 feet above zero of the gage and 844.4 feet above mean sea level.

Graduation extends from zero to 15.5 feet above. Highest water since 1865 was 19.7 feet, on March 2, 1902; lowest since 1899, 1.9 feet, on August 1, 1901, and July 24, 1904. Danger line is at 16 feet.

## BISMARCK, NORTH DAKOTA.

Bismarck, N. Dak. River observations began June 1, 1891. Is on the Missouri River, 1,309 miles from its mouth and 195 miles above Pierre, S. Dak. The width of the river at average low water is 675 feet. The drainage area above the station is 194,000 square miles.

The river gage hangs from the truck stringer of the Northern Pacific Railway bridge, 2 miles east of the city. It is a wire-cable gage of the Missouri River Commission pattern.

Zero of gage coincides with low water of November 3, 1889, and is 1,617.9 feet above mean sea level. Top of rail at east end of Northern Pacific Railway depot is 53.2 feet above zero of the gage and 1,671.1 feet above mean sea level. Top of stringer from which gage hangs is 73.2 feet above zero of the gage and 1,691.1 feet above mean sea level.

Graduation extends from zero to as far above as may be necessary. Highest water was 27.1 feet, on March 27, 1887; lowest, -0.5 foot, on November 10, 1901, October 6-10, 13, 23, 24, and December 1, 1904. Danger line is at 14 feet for points below. There is no danger from flood at Bismarck.

## BLACKROCK, ARKANSAS.

Blackrock, Ark. Established August 1, 1904. Is on the Black River, 67 miles from its mouth and 73 miles above Newport, Ark., on the White River. The width of the river at average low water is 631 feet. The drainage area above the station is 1,343 square miles.

The river gage, which belongs to the Weather Bureau, is located at the lower end of the west side of the downstream wooden crib or bridge rest of the Kansas City, Fort Scott and Memphis (Frisco) Railroad bridge over Black River, about midway of the stream. It is made of 2 by 12 inch yellow heart pine and is painted white, with graduations cut into the wood and painted black. Figures for even feet are made of galvanized iron.

Bench mark (U. S. W. B. 1904),  $\frac{3}{4}$ -inch rivet bolt 6 inches long, drilled into top of solid limestone rock on right bank of river, near ferry landing, 2 feet from southwest corner of street crossing and about 800 feet south, and 81 west of the gage, is 46 feet above zero of the gage and 271.8 feet above mean sea level. Base of rail on bridge on which gage is located is 36.9 feet above zero of the gage and 262.7 feet above mean sea level. Top of concrete coping of middle draw pier of same bridge is 28.4 feet above zero of the gage and 254.2 feet above mean sea level.

Graduation extends from 4 feet below to 36 feet above zero. Highest water was 29 feet, date unknown; lowest, 0.0, date unknown. Danger line is at 12 feet.

## BLAIR, NEBRASKA.

Blair, Nebr. Established August 16, 1904. Is on the Missouri River, 705 miles from its mouth, and 36 miles above Omaha, Nebr. The width of the river at average low water is 600 feet. The drainage area above the station is 321,551 square miles.

The river gage, which belongs to the United States Engineer Corps, is located on the Blair crossing bridge. It is a wire-cable gage of the Missouri River Commission pattern, with graduation burned into horizontal 1 by 4 inch planking.

B. M. 360, United States Engineers, on west pier of bridge, south side, in third course of masonry below lower coping stone, is 19.4 feet above zero of the gage and 1,008.4 feet above mean sea level.

Graduation extends from zero to as far above as may be necessary. Highest water was 19.3 feet on April 6, 1884; lowest, 0.0, on January 26, 1900. Danger line is at 15 feet.

575.4 should be subtracted from observed readings to obtain true stages.



## BLUE RAPIDS, KANSAS.

Blue Rapids, Kans. Established August 1, 1904. Is on the Big Blue River, 47 miles from its mouth at Manhattan, Kans. The width of the river at average low water is 170 feet. The drainage area above the station is 8,075 square miles.

The river gage, which belongs to the Weather Bureau, is a chain and weight gage of the United States Geological Survey pattern and is located on Union Pacific Railroad steel bridge No. 953. The gage box is on the north side of the bridge, 75 feet from the east land pier. An extension scale is provided.

Cross (+) cut in top stone, east side of south abutment, about 4 feet from where bridge structure begins, is 32 feet above zero of the gage and 1,096.5 feet above mean sea level. Top of ties where gage descends is 33 feet above zero of the gage and 1,097.5 above mean sea level.

Graduation extends from zero to 25 feet above. Highest water was 31.2 feet on May 30, 1903; lowest, 0.0, date unknown. Danger line is at 14 feet.

## BLUFF CITY, TENNESSEE.

Bluff City, Tenn. Established March 10, 1902. Is on the South Fork of the Holston River, 35 miles from its mouth, at Rotherwood, Tenn. The width of the river at average low water is 250 feet. The drainage area above the station is 855 square miles.

The river gage, which belongs to Mr. J. W. Lockart, of Bluff City, is attached to the southwest face of the first pier from the east end of the Bristol, Elizabethtown and North Carolina Railroad bridge at Bluff City. It is made of 4 by 12 inch heart pine timber, and is graduated with brass tacks.

Cross cut in upper surface of northwest corner of pier to which gage is attached is 3.8 feet above zero of the gage, and 1,372.4 feet above mean sea level. United States Geological Survey B. M., bronze tablet set in upsteam side of capstone of left abutment of highway bridge at Bluff City, is 20.4 feet above zero of the gage, and 1,389 feet above mean sea level.

Graduation extends from 2 feet below to 15 feet above zero. Highest water since establishment of station was 9.4 feet, on February 17, 1903; lowest, -0.2 foot, on December 1, 7, 12, and 19, 1903. Danger line is at 15 feet.

## BONNERS FERRY, IDAHO.

Bonnors Ferry, Idaho. Established April 16, 1904. Is on the Kootenai River, 123 miles from its mouth, and 279 miles above Northport, Wash., on the Columbia River. The width of the river at average low water is 225 feet. The drainage area above the station is 10,643 square miles.

The river gage, which belongs to the Weather Bureau, is attached to the southwest side of the pier of the Kootenai Valley Railway bridge, 45 feet from the bank. The pier is V-shaped at both ends, and is made of rock, covered with heavy planking. The gage is made of 2 by 12 inch fir planks, painted in alternate triangles of black and white, with white-painted graduations. There is also a United States Geological Survey chain and weight gage on the bridge, its zero being 1 foot higher than that of the Weather Bureau gage.

Bench mark, three large zinc spikes, driven into west side of top stringer on Kootenai Valley Railway bridge over the Kootenai River, just opposite river gage, is 42.1 feet above zero of the gage, and 1,771.3 feet above mean sea level.

Graduation extends from zero to 38 feet above. Highest water was 38 feet, in June, 1894; lowest, -1.4 feet, on December 25, 1904. Danger line is at 24 feet.

## BOONE, IOWA.

Boone, Iowa. Established December 16, 1904. Is on the Des Moines River, 334 miles from its mouth, and 46 miles above Fort Dodge, Iowa. The width of the river at average low water is 75 feet. The drainage area above the station is 6,614 square miles.

The river gage, which belongs to the Weather Bureau, is a chain and weight gage of the United States Geological Survey pattern, and is located on the Chicago and Northwestern Railway viaduct over the Des Moines River, 4 miles west of the city of Boone.

Bench mark, top of guard rail of viaduct to which gage is attached, is 187.2 feet above zero of the gage, and 1,050.8 feet above mean sea level.

Graduation extends from zero to 26 feet above. Highest water was 25.4 feet, in May, 1903; lowest, unknown. Danger line is at 11 feet,

## BOONVILLE, MISSOURI.

Boonville, Mo. Established November 16, 1873. Is on the Missouri River, 199 miles from its mouth and 96 miles from Hermann, Mo. The river is 1,500 feet wide at average low water, and the drainage area above the station is 507,500 square miles.

The river gage in use is the Missouri River Commission wire cable gage on the Missouri, Kansas and Texas Railway bridge, and it is attached to the guard rail of the draw span.

P. B. M., 142, Missouri River Commission, on west side of Main street, between Levee and Water streets; 1 foot west of stone curbing, at lower edge of stone, marking high water of 1844, being copper bolt in bench-mark stone (underground), is (top of cap), 33.6 feet above zero of gage and 599.7 feet above mean sea level. Another Missouri River Commission bench mark, knob cut in north face of right-bank pier of the Missouri, Kansas and Texas Railway bridge, on third stone from west end of pier, in twelfth course below coping, is 25 feet above zero of the gage and 591.1 feet above mean sea level.

Graduation extends from 2 feet below to 34 feet above zero. Highest water was 33.6 feet on June 1, 1844; lowest, -0.6 foot on December 8, 1882, and January 3-5, 1891. Danger line is at 20 feet.

## BOOTH, TEXAS.

Booth, Tex. Established May 10, 1901. Is on the Brazos River, 61 miles from its mouth and 79 miles below Hempstead, Tex. The width of the river at average low water is 350 feet. The drainage area above the station is 36,427 square miles.

The river gage is located on the south side of the river, on the line between lots 1 and 2, where the division of the Kuykendall League touches the river. It is made of 2 by 4 inch pine, and is fastened to live-oak and cedar posts driven firmly into the ground. It is painted white, and graduations are shown by brass figures and copper tacks. The gage belongs to Mr. F. I. Booth, but the figures and tacks were furnished by the Weather Bureau. It is in 5 inclined sections, each indicating about 10 feet of vertical height, and its total length is about 325 feet.

A mark, x, on sycamore tree to which upper section is fastened, can be used as a bench mark.

Graduation extends from zero to 50 feet above. Highest water was 44 feet, on July 8, 1899; lowest since establishment of station, -0.7 foot, on January 19-24, 1902. Danger line is at 39 feet.

## BOWLING GREEN, KENTUCKY.

Bowling Green, Ky. Established December 1, 1901. Is on Big Barren River, the principal tributary of Green River, 30 miles from the mouth of the former and 180 miles from the mouth

of the latter. The width of the river at average low water is 112 feet. The drainage area above the station is 1,895 square miles.

The river gage, which, except the first section, belongs to the Weather Bureau, is in three sections. The first (3.5 to 12.5 feet) is the suction pipe of the steam pump, located near north end of the jut on front of bluff in rear of Bowling Green Ice and Cold Storage Company. Graduations are painted on the pipe. The second section (12.5 to 21.7 feet) is adjacent to the first, and is erected on timbers projecting beyond the bluff; it is made of 2 by 12 inch oak timber, painted white, with graduations burned in and painted black. The third section (21.7 to 39.1 feet) is similar in construction to the second, and is attached to the warehouse of the Evansville and Bowling Green Navigation Company.

Cross mark cut into top of ringbolt, which is embedded in rock on northwest side of the Evansville and Bowling Green Navigation Company's warehouse, is 1.4 feet from the foundation wall, and 18.8 feet above zero of the gage.

Graduation extends from 3.5 to 39.1 feet above zero. Highest water since establishment of station was 30.6 feet, on December 18, 1902; lowest, unknown. Danger line is at 20 feet.

#### BRIDGEPORT, ALABAMA.

Bridgeport, Ala. Established August 13, 1896. Is on the Tennessee River, 402 miles from its mouth, and 53 miles above Guntersville, Ala. The width of the river at average low water is 475 feet, with a slough one-half mile in width. The drainage area above the station is 22,650 square miles.

The river gage is made of iron, is in three sections, and is fastened on the bank pier of the drawbridge. The lower section is inclined and is made of 60-pound railroad iron. The two upper sections are of one-half by 6-inch iron, each 12 feet in length, and are upright. The ownership of the gage is not a matter of exact record.

Bench mark on southeast corner of second course of masonry of first pier of the bridge, in east channel at East Bridgeport, is 22.1 feet above zero of the gage, and 616.8 feet above mean sea level.

Graduation extends from zero to 36 feet above. It can be extended to 42 feet by using the coping of the bridge. Highest water was 41 feet, during the flood of 1867; lowest water since 1895 was -0.4 foot, on October 25-November 2, 1904. Danger line is at 24 feet.

#### BROOKVILLE, PENNSYLVANIA.

Brookville, Pa. Established in 1884. Is on Red Bank Creek, 42 miles from its mouth. The distance to Mahoning, Pa., on the Allegheny River is 41 miles. The width of the creek at average low water is 180 feet. The drainage area above the station is 329 square miles.

A new river gage was installed by the Weather Bureau on September 24, 1904. It is located on the left bank of the creek, and is attached to the building owned by J. M. Pierce. It is a timber gage, painted white with black graduations.

Bottom of rail on Allegheny Valley Railway bridge, immediately above location of old gage, is 32 feet above zero of the gage, and 1,213 feet above mean sea level.

Graduation extends from 2 feet below to 12 feet above zero. Highest water was 14 feet, on June 1, 1889; lowest, -1.1 feet, on June 2-17, 1897. Danger line is at 8 feet. At a zero stage there is 1 foot of water in the channel.

#### BUCHANAN, VIRGINIA.

Buchanan, Va. Established October 17, 1892. Is on the James River, 305 miles from its mouth, and 45 miles above Lynchburg, Va. The width of the river at average low water is 340 feet. The drainage area above the station is 2,058 square miles.

The river gage, which belongs to the United States Geological Survey, is the standard chain and weight gage of that Bureau, and is attached to the superstructure of the county iron bridge over the James River at Buchanan.

Top of stone post under southwest corner of Chesapeake and Ohio Railway depot is 24.7 feet above zero of the gage, and 805.7 feet above mean sea level. Top of rail in front of Norfolk and Western Railway depot is 53 feet above zero of the gage, and 834 feet above mean sea level.

Graduation extends from zero to 14 feet above. It can be extended as much above as may be necessary. Highest water was 24.6 feet, on November 27, 1877; lowest, -0.6 foot, on April 27-May 2, 1896. Danger line is at 12 feet.

#### BURNSIDE, KENTUCKY.

Burnside, Ky. Established in 1884. Is on the Cumberland River, 518 miles from its mouth, and 135 miles above Celina, Tenn. The width of the river at average low water is 150 feet. The drainage area above the station is 3,739 square miles.

The river gage was reconstructed in January, 1902, and is in three sections. The first (-2 to 3 feet) is cut on top of north rail of incline No. 1, leading from the South Fork of the Cumberland River to warehouse; the second (3 to 54 feet) is cut on inner flange of south rail of incline No. 2, which also leads into warehouse; the third (54 to 71 feet) is made of 1½ by 10 inch planking, and is spiked on the side of the office of Colonel Cole. The gage belongs to the Weather Bureau. The graduation of the first section is in feet and half feet, even feet being indicated by Arabic figures; that of the second section is in feet and tenths of feet, with even feet in Roman figures; while the third section is painted white, with even footmarks in Arabic figures, feet and half feet in red, and intermediate graduations in black.

The zero of the gage is 589 feet above mean sea level.

Graduation extends from 2 feet below to 71 feet above zero. Highest water was 62 feet, on March 31, 1886; lowest, -1.6 feet, on November 8 and 9, 1895. Danger line is at 50 feet.

#### CAIRO, ILLINOIS.

Cairo, Ill. Established June 1, 1871. Is on the Ohio River, 1 mile above its junction with the Mississippi. The distance to Memphis, Tenn., is 230 miles, and to the mouth of the Mississippi 1,074 miles. The width of the river at average low water is 4,750 feet. The drainage area above the station is 916,600 square miles, of which 204,320 square miles are comprised in the watershed of the Ohio River.

The river gage is in two sections, one inclined and one vertical. Both belong to the Weather Bureau, except the lower portion of the inclined section (-2 to 9 feet), which belongs to the United States Engineer Corps, and was erected in 1873. The Weather Bureau portions were entirely reconstructed during 1903, and the use of the new gage begun on December 25 of that year.

The inclined section (-2 to 50 feet) is about 233 feet in length and is located on the Ohio levee at foot of Fourth street. From -2 to 9 feet it consists of 10 by 12 inch oak timbers, secured to a wooden crib sunk into face of levee. An iron strap, 4.5 inches in width, is spiked to the top surface of the timbers, and graduations are cut into its face. From 9 to 50 feet the gage consists of 12-inch steel I beams laid in a bed of concrete from 3 to 4½ feet in depth, and from 2½ to 3 feet in width. Graduations are cut into the surface of the I beams. The vertical section (50 to 55.2 feet) is embedded in the outside face of L-shaped end of concrete wall, north-west side of Fourth street. It is made of 5 by ½ inch steel strips, and graduations are cut into its face.

U. S. P. B. M., small hole in center of copper bolt in northwest face of custom-house wall, distant 23.6 feet from northwest corner and 3 feet above ground, is 47.1 feet above zero of the gage and 317.7 feet above mean sea level. U. S. P. B. M. 2, small hole in copper bolt in southeast side of building containing offices of the trustees of Cairo Trust property, located on Washington avenue between Eighteenth and Nineteenth streets, bolt being 14.6 feet from the southeast corner and 3.7 feet below surface of water table, is 48.4 feet above zero of the gage and 319 feet above mean sea level.

Graduation extends from 2 feet below to 55.2 feet above zero. Highest water was 52.2 feet, on February 27, 1883; lowest, -1.0 foot, on December 24, 1871. Danger line is at 45 feet. The bank full stage is 39.3 feet.

NOTE.—From November 25, 1902, to November 4, 1903, inclusive, readings were made from several temporary gages erected by the United States Engineer Corps, or from the incomplete new gage which was temporarily graduated. From November 5, 1903, to December 24, 1903, inclusive, readings were made on that portion of old gage that had not been removed.

#### CALHOUN FALLS, SOUTH CAROLINA.

Calhoun Falls, S. C. Established March 1, 1899. Is on the Savannah River, 347 miles from its mouth, and 79 miles above Augusta, Ga. The width of the river at average low water is 378 feet. The drainage area above the station is 2,712 square miles.

The gage is of the wire-cable pattern of the United States Geological Survey, to which it belongs. It is located on the Seaboard Air Line bridge about 3 miles west of the town, on the center span of that portion of the bridge over the west channel.

Center of pulley is 193 feet from the initial point, and is 55.2 feet above zero of the gage. Zero point on graduation rod is 10 feet from center of pulley. Top of iron stringer under cross-ties near gage is 54 feet above zero of the gage and 408.5 feet above mean sea level. Top of east end of pier, west channel, is 30.8 feet above zero of the gage and 385.3 feet above mean sea level.

Highest water since 1896 was 19.4 feet, on February 14, 1900; lowest, 1 foot, on October 13-18, 1904. Danger line is at 15 feet.

#### CALICOROCK, ARKANSAS.

Calicorock, Ark. Established August 1, 1904. Is on the White River, 272 miles from its mouth, and 55 miles above Batesville, Ark. The width of the river at average low water is 450 feet. The drainage area above the station is 10,632 square miles.

The river gage, which belongs to the United States Engineer Corps, is located just below the town of Calicorock, on the left bank of the river. It is an inclined gage, in six sections, made of 8 by 8 inch heart pine, and is attached to cedar posts, sunk 6 or 7 feet into the ground. It is also bolted in places to boulders. The whole is painted white, with graduations cut into the wood and painted black.

United States stone monument (White River Survey, 1886), set in field opposite town of Calicorock, is 44.2 feet above zero of the gage and 371 feet above mean sea level.

Graduation extends from 3 feet below to 38 feet above zero. Highest water was 43.1 feet, on February 14, 1884; lowest, -1 foot, from September 5 to October 17, inclusive, 1901. Danger line is at 18 feet.

#### CALVIN, INDIAN TERRITORY.

Calvin, Ind. T. Established September 1, 1904. Is on the Canadian River, 99 miles from its mouth, and 106 miles from Webbers Falls, Ind. T., on the Arkansas River. The width of

the river at average low water is 200 feet. The drainage area above the station is 36,532 square miles.

The river gage, which belongs to the Weather Bureau, is a chain and weight gage of the United States Geological Survey pattern, and is attached to the guard rail, on the upstream side, of the Choctaw, Oklahoma and Gulf Railroad bridge over the Canadian River, one-fourth of a mile west of the town.

Graduation extends from zero to as far above as may be necessary. Highest water was 25 feet, date unknown; lowest of record, — 0.9 foot, on October 24, 1904. Danger line is at 10 feet.

#### CAMDEN, ARKANSAS.

Camden, Ark. Established in 1885. Is on the Ouachita River, 304 miles from its mouth, and 182 miles above Monroe, La. The width of the river at average low water is 210 feet. The drainage area above the station is 5,700 square miles.

The old river gage was destroyed on May 13, 1903, and a temporary one was used from May 14, 1903, to September 28, 1904, inclusive. On September 29, 1904, a new gage was installed by the United States Engineer Corps on the north side of the draw pier of the St. Louis Southwestern Railway bridge, 24 miles above the old gage. It is made of timber and is nailed to a backing, which is bolted to the bridge pier. An additional section, extending from 31 to 43 feet, is nailed to the first trestle bent from the east end of the bridge.

P. B. M., I, is center of cap to gas pipe set vertically in ground at southwest corner of yard of Shiloh M. E. Church, at Camden. It is 1.6 feet from south fence of yard, 2.3 feet from west fence, 13.1 feet north of north end of cotton shed of Camden Compress Company, and 32.8 feet east of side track running to compress. Top of pipe is 1.6 feet above surface of ground. Elevation above zero of gage, 67.4 feet; above mean sea level, 138.5 feet.

B. M. A. (Ewens, 1890), small cross cut in center of granite doorsill of easternmost door of Mr. Ritchie's storehouse, is 62.4 feet above zero of the gage and 133.5 feet above mean sea level.

B. M. B. (Ewens, 1890) is top of spike driven horizontally into one of the mortar courses of downstream face of old Tyra Hill warehouse, on Washington street. It is 1.3 feet above the surface of the ground and 4.7 feet from the Washington street face of the building. Elevation above zero of the gage, 55.2 feet; above mean sea level, 126.3 feet.

Graduation extends from 1.7 to 43 feet above zero. Highest water was 46 feet, on May 12, 1882; lowest, 1.7 feet, on October 22–25, 1887. Danger line is at 39 feet. From January 14 to October 28 and from December 10 to 31, 1901, all inclusive, gage readings are 0.1 foot too high. Error due to settling of gage.

#### CAMDEN, SOUTH CAROLINA.

Camden, S. C. Established March 1, 1891. Is on the Wateree River, 37 miles from its mouth. The distance above Camden to the headwaters of the Catawba River is 201 miles, and from Camden to the sea 162 miles. The width of the river at average low water is 270 feet. The drainage area above the station is 2,635 square miles.

The river gage is in two sections. The lower (— 1 to 16 feet) is made of 2 by 8 hard pine, and is attached to the central granite pier of the South Carolina and Georgia Railroad bridge. It is painted white and marked with brass figures and copper tacks. The upper section (16 to 36 feet) is painted black on the red iron framework of the bridge. Gage was erected by the United States Engineer Corps and adopted by the Weather Bureau in 1891.

Top of rail on bridge on which gage is located is 47 feet above zero of the gage and 222 feet above mean sea level.

Graduation extends from 1 foot below to 36 feet above zero. Highest water was 32.5 feet, on May 24, 1901; lowest, 0.0, in June, 1884. Danger line is at 24 feet.

## CAMDEN ON GAULEY (LANES BOTTOM), WEST VIRGINIA.

Camden on Gauley (Lanes Bottom), W. Va. Established December 5, 1901. Is on the Gauley River, 63 miles from its mouth and 104 miles above Charleston, W. Va., on the Great Kanawha River. The width of the river at average low water is 119 feet. The drainage area above the station is 1,273 square miles.

The river gage, which belongs to the Weather Bureau, is located at the edge of the river. It is a 10 by 10 inch post 9 feet in length, 5 feet of which are set in the river bottom. Top of post is on a level with base of a board 8 by 2½ inches and 13 feet in length; board is attached to birch tree standing 5 feet from water line. Graduations are shown by means of brass tacks.

Graduation extends from zero to 17 feet above. Highest water known was 21.7 feet on December 15, 1901. Danger line is at 18 feet.

## CANTON, GEORGIA.

Canton, Ga. Established July 1, 1891. Is on the Etowah River, 65 miles above its junction with the Oostanaula River at Rome, Ga. The width of the river at average low water is 116 feet. The drainage area above the station is 604 square miles.

The river gage, which belongs to the Weather Bureau, is located at the iron highway bridge, one-half mile above the mouth of Canton Creek and 1,000 feet upstream from the Atlanta, Knoxville and Northern Railway station. It is bolted to the edge of the left bank pier on the upstream side, and is made of heavy pine timber painted white, with black graduations. Even feet are indicated by brass figures.

Bench mark, top of iron bar on top of left bank pier, at end of center span of bridge on which gage is located, is 23.4 feet above zero of the gage and 904.4 above mean sea level. Center of head of large wire nail driven horizontally into side toward river of walnut tree on east side of road, 25 feet north of north end of same bridge, is 18.5 feet above zero of the gage and 899.5 feet above mean sea level.

Graduation extends from 1 foot below to 25 feet above zero. Highest water was 23 feet in January, 1892; lowest, -0.8 foot on September 18-21, 1896 and on September 26, 1897. Danger line is at 20 feet.

## CAPE GIRARDEAU, MISSOURI.

Cape Girardeau, Mo. Reestablished November 1, 1904, after having been closed since February 28, 1894. Is on the Mississippi River, 1,128 miles from its mouth and 125 miles above New Madrid, Mo. The width of the river at average low water is about 4,000 feet. The drainage area above the station is 712,155 square miles.

The river gage, which belongs to the United States Engineer Corps, is located at the lower end of the city wharf, at the foot of Independence street, and is a vertical gage in eight sections. The first section (0 to 7 feet), second (5 to 10 feet), third (9.5 to 13 feet), fourth (11 to 16 feet), fifth (15.5 to 19 feet), and sixth (19 to 22 feet) are attached to pieces of wood projecting from the end of the rock levee; the seventh section (22 to 26 feet) is nailed to a 6 by 8 inch post about 8 feet to the right of the tree to which the eighth section is attached. The eighth section extends from 26 to 36 feet. The entire gage is made of 2 by 6 inch cypress timbers, with graduations cut into the wood. They are also painted on the seventh and eighth sections.

P. B. M. 54, horizontal copper bolt in outer vertical face of stone step which extends under buttress at northeast corner, second entrance from north, to River View Hotel, on Water street, Cape Girardeau, Mo., is 41.7 feet above zero of the gage and 346.4 feet above mean sea level.

B. M. L. (Harmon, 1898), top of flat portion of bent boat spike driven horizontally into river face of E. W. Flentge's store building, north side of Independence street, at southeast corner of

building, 0.6 foot north of corner, in first joint of stone masonry above ground and third joint below brickwork, about on level with paving of gutter at corner of building, which latter is marked "Franklin House," is 35.6 feet above zero of the gage and 340.3 feet above mean sea level.

Graduation extends from zero to 36 feet above. Highest water was 36.5 feet on June 14, 1903; lowest, 0.8 foot, on February 1, 1902. Danger line is at 28 feet.

#### CARLTON, GEORGIA.

Carlton, Ga. Established March 1, 1899. Is on the Broad River, 3 miles above the mouth of the South Fork, 30 miles from the mouth of Broad River, and 95 miles above Augusta, Ga. The width of the river at average low water is 205 feet. The drainage area above the station is 827 square miles.

The river gage, which belongs to the United States Geological Survey, is a wire cable one, and is attached to the upstream side of the guard rail of the Seaboard Air Line bridge, 3 miles east of Carlton.

Top of upstream iron girder, under cross-ties, 37 feet from the zero mark of the gage, is 51 feet above zero of the gage and 435.5 feet above mean sea level. Center of pulley of gage is 52.2 feet above zero of the gage and 436.7 feet above mean sea level.

Graduation extends from zero to as far above as may be necessary. Highest water of record was 24.5 feet on February 28, 1902; lowest, 1.4 feet on July 21, 1904. Danger line is at 11 feet.

#### CARRIZO, TEXAS.

Carrizo, Tex. Established January 1, 1901. This station is on the Rio Grande, and is maintained as a portion of the Rio Grande flood service with the cooperation of the United States Signal Corps.

#### CARTHAGE, TENNESSEE.

Carthage, Tenn. Established in 1885. Is on the Cumberland River, 115 miles above Nashville, Tenn., and 308 miles from the mouth of the river. The width of the river at average low water is 375 feet. The drainage area above the station is 9,800 square miles.

The river gage, which belongs to the Weather Bureau, is located southwest of the town and is in two wooden sections. From 1 foot below to 20 feet above zero it is on the incline of the bank, being fastened with heavy iron bolts to large oak posts; from 20 to 55 feet it is fastened with iron bands to a large cottonwood tree. Both sections are graduated by means of brass figures and copper tacks.

The zero of the gage is 443 feet above mean sea level.

Graduation extends from 1 foot below to 55 feet above zero. Highest water was 54.3 feet on April 7, 1886; lowest, -0.4 foot on November 16, 1902. Danger line is at 40 feet.

#### CASCADE LOCKS, OREGON.

Cascade Locks, Oreg. Date of establishment unknown. Is on the Columbia River, 119 miles from its mouth and 44 miles above Vancouver, Wash. The drainage area above the station is 228,128 square miles.

The river gage, which belongs to the United States Engineer Corps, is located on the masonry of the locks, each stone of which is exactly 1 foot in height.

Zero of the gage is 42.5 feet above mean sea level.

Highest water was 49.6 feet on June 6, 1894; lowest, -4 feet on December 19-21, 1884.



## CASTLETON, NEW YORK.

Castleton, N. Y. Established February 21, 1903. Is on the Hudson River, 139 miles from its mouth and 11 miles above Stuyvesant, N. Y. The width of the river at average low water is 1,320 feet. The drainage area above the station is 9,365 square miles.

The river gage, which belongs to the Weather Bureau, is located on Seaman's dock, and is nailed to a pile. It is made of 1½ by 6 inch pine timber, painted white, with black graduations.

Bench mark, ⊕, cut in doorsill on west side of New York Central and Hudson River Railroad station, is 16.9 feet above zero of the gage and 16.7 feet above mean sea level. Mean low-water plane of 1876 corresponds to mean sea level, and the 6-foot level on the gage is marked by a nail driven into the pile.

Graduation extends from zero to 12 feet above. Danger line is at 10 feet.

## CATLETTSBURG, KENTUCKY.

Catlettsburg, Ky. Established June 4, 1887. Is on the Ohio River, 651 miles from its mouth and 39 miles above Portsmouth, Ohio. The width of the river at average low water is 749 feet. The drainage area above the station is 59,300 square miles.

The river gage, which belongs to the United States Engineer Corps, consists of a line of stones with graduations cut into them, extending down the bank of the river to the wharf. It was adjusted in 1895, in order to make the zero mark agree with the top of Greenup Bar. During extreme low water the gage is completely uncovered, and a supplementary low-water gage of a portable character was provided by the Weather Bureau in August, 1900.

Bench mark, cut in corner stone of store on corner of Front and Division streets, is 53.7 feet above old zero of gage, which corresponds to low water of 1883, and 541 feet above mean sea level.

Graduation extends from zero to 52.5 feet above. Highest water was 72 feet on February 12, 1884; lowest, 0.1 foot September 21, 1894. Danger line is at 50 feet.

## CATLETTSBURG, TENNESSEE.

Catlettsburg, Tenn. Established July 15, 1902. Is on the Little Pigeon River, 2 miles from its mouth and 30 miles from the mouth of the French Broad River at Knoxville, Tenn. The width of the river at average low water is 440 feet. The drainage area above the station is 383 square miles.

The river gage, which belongs to the Weather Bureau, is bolted to the north face of the brick pier supporting Atchley's warehouse. It is made of 2 by 12 inch oak timber, painted white, with graduations burned in and painted black.

Bottom of mill sill, 1 foot square and 3 feet long, 0.5 foot south of gage, is 12.5 feet above zero of the gage.

Graduation extends from zero to 30 feet above. Highest water of record was 10.4 feet on February 28, 1903; lowest, below zero on various dates in 1903. Danger line is at 8 feet.

## CEDAR RAPIDS, IOWA.

Cedar Rapids, Iowa. Established August 1, 1904. Is on the Cedar River, 77 miles from its junction with the Iowa River. The width of the river at average low water is 400 feet. The drainage area above the station is 6,285 square miles.

The river gage, which belongs to the United States Geological Survey, is located on the right bank of the river, at the foot of Seventh avenue, on a line with the southeast corner of the building of the Iowa Windmill and Pump Company. It is made of 4 by 6 inch timber, is inclined,

and attached to posts driven into the river bank. It is painted black, with graduations of white figures and copper tacks.

Bolt, driven into masonry of foundation of east face of building of Iowa Windmill and Pump Company, 1 foot above ground, and 1.5 feet from southeast corner, is 17 feet above zero of the gage and 740 feet above mean sea level. Triangle on stone just north of first iron post from corner, on lumber office of Williams & Hunt, on north corner of Fifth avenue and West First street, is 23.6 feet above zero of the gage and 746.6 feet above mean sea level.

Graduation extends from zero to 15 feet above. Highest water was 16 feet on June 2, 1903; it was probably higher in 1884, but there are no available data; lowest, -2 feet, date unknown. Danger line is at 14 feet.

#### CEDAR RUN, PENNSYLVANIA.

Cedar Run, Pa. Established November 1, 1904. Is on Pine Creek, 35 miles from its junction with the West Branch of the Susquehanna River and 50 miles above Williamsport, Pa. The width of the creek at average low water is 275 feet. The drainage area above the station is 600 square miles.

The river gage, which belongs to the Weather Bureau, is a chain and weight gage of the United States Geological Survey pattern, and is attached to the guard rail on the south side of the county highway bridge over Pine Creek, 77 feet west of the east abutment.

Bench mark, chiseled in west face of east abutment of county highway bridge over Pine Creek, near southwest corner, is 6.1 feet above zero of the gage and 786.1 feet above mean sea level. Top of rail in front of New York Central and Hudson River Railroad station is 21.4 feet above zero of the gage and 801.4 feet above mean sea level.

Graduation extends from zero to 14 feet above. Danger line is at 10 feet.

#### CELINA, TENNESSEE.

Celina, Tenn. Established December 1, 1903. Is on the Cumberland River, 383 miles from its mouth and 75 miles above Carthage, Tenn. The width of the river at average low water is 355 feet. The drainage area above the station is 8,230 square miles.

The river gage, which belongs to the Weather Bureau, is located near the lower steamboat landing, and is in four sections. The first (-1 to 0.2 foot) is a vertical iron rod, 1 inch in diameter, wedged into solid rock and graduated with iron rings; the second (0.2 to 30.7 feet) is inclined and consists of railroad and tire iron; the lower 45 feet are made of railroad iron, the first 25 feet being fastened to the solid rock by means of 6-inch bolts, and the remaining 20 feet spiked to a white-oak stringer, the lower end of which rests against a shoulder in the rock, and the whole being supported at intervals by cross sills of cedar; from the upper end of the rail to the top of the incline the gage is made of tire iron, fastened by screws and wire nails to white-oak and cedar stringers, firmly attached to cedar cross sills, the whole being anchored by heavy stones. Graduations, including figures for feet, are shown by dots made with a steel center-punch. The third section (30.7 to 44 feet) is vertical and is attached to an elm tree about 150 feet south of the inclined section. It is made of 1½ by 8 inch white-oak timber, painted white with black markings except the figures for feet, which are in red; the fourth section (44 to 56 feet) is vertical and is attached to the southwest corner of the main warehouse, near the top of the inclined section. It is similar in construction to the third section.

Low-water mark, near which the zero of the gage was fixed, is approximately 494 feet above mean sea level and about 31 feet below a mark made near the bottom of the elm tree supporting the third section of the gage; the mark consists of two 40-penny nails driven into the west side of the tree.

Graduation extends from 1 foot below to 56 feet above zero. Highest water was 52 feet in 1890; lowest, 0.4 foot in 1894. Danger line is at 45 feet.

#### CHARLESTON, TENNESSEE.

Charleston, Tenn. Established in 1893. Is on the Hiwassee River, 18 miles from its mouth and 53 miles above Chattanooga, Tenn., on the Tennessee River. The width of the river at average low water is 300 feet. The drainage area above the station is 2,297 square miles.

The river gage belongs to the Engineer Corps. It is situated on the southwest side of pier No. 1 of the Southern Railway bridge over the Hiwassee River 125 feet from the southeast bank, and consists of a vertical triangular piece of heart pine bolted to the pier. It is painted white, with black graduations.

Bench mark, cross cut in top surface of upper course of stone on pier on which gage is located, is 35 feet above zero of gage, and 722.3 feet above mean sea level.

Top of rail on bridge is 39.2 feet above zero of the gage, and 726.5 feet above mean sea level.

Graduation extends from zero to 35.7 feet above. Highest water was 32.2 feet on March 31, 1886; lowest, -0.3 foot, on October 19, 1904. Danger line is at 22 feet.

#### CHARLESTON, WEST VIRGINIA.

Charleston, W. Va. Established June 4, 1887. Is on the Great Kanawha River, 58 miles above Point Pleasant, W. Va., at its mouth. The river is 600 feet wide at average low water. The drainage area above the station is 9,200 square miles.

The river gage, owned by the Engineer Corps, is cut on the north face of the main pier of the Charleston and South Side bridge.

Zero of gage is referred to several bench marks and was carefully set from established benches connected with Great Kanawha River improvement. It is 554.4 feet above mean sea level.

Graduation extends from 0.1 foot below to 46.7 feet above zero. Highest water was 46.9 feet on September 29, 1861; lowest, -0.1 foot, on September 15, 1881. Danger line is at 30 feet. Lock and Dam No. 6 now prevent water from falling below 4.8 feet.

#### CHATHAM (STANLEY P. O.), NEW JERSEY.

Chatham, N. J. Established February 10, 1903. Is on the Passaic River, 69 miles from its mouth, and 28 miles above Paterson, N. J. The width of the river at average low water is 79 feet. The drainage area above the station is 100 square miles.

The river gage, which belongs to the Weather Bureau, was installed on January 1, 1904, replacing the old wooden gage that was carried away by the flood of October, 1903. It is a chain and weight gage of the United States Geological Survey pattern, and is attached to the guard rail on the downstream side of the county bridge over the Passaic River at Chatham.

Graduation extends from zero to as far above as may be necessary. Highest water of record was 7.9 feet on February 24, 1904; lowest, 2 feet on May 15-28, and June 3-7, 1903. Danger line is at 7 feet.

#### CHATTANOOGA, TENNESSEE.

Chattanooga, Tenn. River observations began December 1, 1876. Is on the Tennessee River, 452 miles from its mouth and 50 miles above Bridgeport, Ala. The river is 1,200 feet wide at average low water. The drainage area above the station is 21,418 square miles.

There are two old river gages—one known as “old river gage” and the other as “high-water gage.” The old gage is located about 50 yards upstream from the foot of Lookout street. It consists of two sections—an incline and an upright. The inclined section consists of two lengths of steel rail, each 20 feet long, inverted and marked by cuts in the metal. The upright is a stick of 6 by 8 inch heart pine, 46 feet in length, painted, and with graduations cut in. The high-water gage is located about 30 yards west of the foot of Market street. It consists of two sections—an incline and an upright. The inclined section begins at 35 and ends at 53 feet. It is a stick of heart pine supporting a steel strap on which the graduations are cut. The upright section is 50 yards north of the incline on the southeast corner of the brick ice factory. It is a steel plate, 12.5 feet long and 6 inches wide, graduated from 53 to 65 feet. The entire structure is painted and is owned by the Weather Bureau.

There are also two new gages, both belonging to the Weather Bureau. One, a standard brass gage, was first used on December 1, 1900. It is attached to the southwest side of the third pier from the south end of the Hamilton County bridge. Pier is 418 feet from the bank at low water and is a sloping stone structure. The gage is set in a channel cut in the pier. Foot marks are painted on the gage and the graduation extends from 1.3 feet below to 53.7 feet above zero.

The other new gage is an automatic one of the Fulton design and was installed on December 30, 1902. It is of the float and counterpoise pattern and is located on the extreme west edge of third pier from south end of the Hamilton County bridge, being the same pier that carries the brass gage. Readings from 2 feet below to 60 feet above zero can be automatically registered. A detailed description of this gage may be found in the Monthly Weather Review for April, 1903.

Bench mark, top of water table on southeast corner of United States post-office building on Eleventh street, between Market and A streets, is 74.4 feet above zero of gage, and 706.1 feet above mean sea level.

Graduation extends from 2 feet below to 65 feet above zero. Highest water was 58.6 feet on March 11, 1867; lowest, 0.0, in September, 1837, on September 14, 1881, and September 19, 1883. Danger line is at 33 feet.

#### CHERAW, SOUTH CAROLINA.

Cheraw, S. C. Established April 1, 1891. Is on the Pedee River, 149 miles from its mouth, and 98 miles above Smiths Mills, S. C. The width of the river at average low water is 450 feet. The drainage area above the station is 6,668 square miles.

The river gage, which was erected by the United States Engineer Corps in 1887, was taken over by the Weather Bureau in 1891. It is attached to the Cheraw toll bridge and consists of a 1 by 12 inch pine board, painted white, with black graduations.

Top of rail on Atlantic Coast Line bridge near Cheraw is 58 feet above zero of the gage and 108 feet above mean sea level.

Graduation extends from zero to 38 feet above. Highest water was 37.3 feet on March 11, 1875; lowest, 0.0, on August 29, 1866. Danger line is at 27 feet.

#### CHESTER, ILLINOIS.

Chester, Ill. Established November 1, 1890. Is on the Mississippi River, 1,189 miles from its mouth and 61 miles above Cape Girardeau, Mo. The width of the river at average low water is 2,400 feet. The drainage area above the station is 709,000 square miles.

The river gage was reconstructed in January, 1900, by the United States Engineer Corps, to which it belongs. It now consists of four sections. The first (—1 to 2.6 feet) is inclined, and is located 10 feet upstream from the upper warehouse at the landing; the second (2.5 to 22.4

feet) is also inclined, and is located 42 feet upstream from the upper warehouse; the third section (22.5 to 24.9 feet) and the fourth (25 to 36 feet) are vertical and are attached to the north wall of the warehouse. The first section is a 3 by 8 inch oak stringer with a  $\frac{1}{4}$ -inch iron strap bolted to its 8-inch face; it is embedded in the loose riprap of the bank revetment and held in position by stones piled on projecting crosspieces spiked to underside of stringer. The second section is a 4 by 6 inch oak stringer bolted to oak posts embedded in the loose riprap of the bank revetment. The third and fourth sections are made of  $2\frac{1}{2}$  by 3 inch triangular oak timbers. Graduations are cut into the iron strap of the first section and into the faces of the remaining three.

U. S. P. B. M. No. 38 was destroyed in 1902. U. S. P. B. M. 39, horizontal copper bolt in front face of Cole Brothers' stone elevator, 1.32 meters east of southwest corner, same distance above ground, and 1,240 meters below Chester, Ill., is 39.9 feet above zero of gage and 381 feet above mean sea level.

B. M., Gollon, 1902, is top of northeast corner of heavy stone lower doorstep to brick building owned by Frank Gollon, on northeast side of Water street, Chester, Ill. It is marked on south and west sides by a chisel score,  $\perp$ , in the stone, the north and east sides being respectively the edges of the step and of the stone doorsill or second step, and is about 130 feet north of north curb of Ferry street. Elevation above zero of gage, 39 feet; above mean sea level, 380.1 feet.

Graduation extends from 1 foot below to 36 feet above zero. Highest water of record was 33.3 feet on June 13 and 14, 1903. A much higher stage was said to have been reached in 1844. Lowest water was -4.1 feet on January 3, 1900. Danger line is at 30 feet.

#### CHIPPEWA FALLS, WISCONSIN.

Chippewa Falls, Wis. Established December 1, 1900. Is on the Chippewa River, 75 miles from its mouth. With an ordinary stage of water the width of the river at the bridge is about 1,500 feet. The drainage area above the station is 4,178 square miles.

The river gage, which belongs to the Chippewa Lumber and Boom Company, is painted on a steel pier of the Chippewa Falls wagon and high bridge. Pier is the first on right side of river, and is 180 feet from the end of the bridge. Graduations are shown by black markings on a white ground and are in feet and inches.

Top of rail in front of Wisconsin Central Railway depot is 24.4 feet above zero of the gage, and 831 feet above mean sea level. City datum, the level of the water in the Chippewa River at the time the streets of the city were graded, is 6.3 feet above the zero of the gage, and 812.9 feet above mean sea level. Bench mark on eastern corner of city building is 36.2 feet above zero of the gage, and 842.8 feet above mean sea level.

Graduation extends from zero to 31 feet above. Zero of gage is extreme low-water mark of 1897. Highest water was 13.5 feet on September 16 and 17, 1903; lowest, 0.0, on various dates. Danger line is at 16 feet.

#### CINCINNATI, OHIO.

Cincinnati, Ohio. River observations began May 11, 1873. Is on the Ohio River, 499 miles from its mouth, and 86 miles above Madison, Ind. The width of the river at average low water is 1,050 feet. The drainage area above the station is 73,900 square miles.

The river gage is at the city waterworks, and is owned by the Weather Bureau. It is partly in the main building of the waterworks, extends from thence along the ground to the face wall of the supply pipe, thence along the coping of the wall to its west end, and thence down the end of the wall to the zero point. Zero of the gage corresponds to a line from the bottom of the river on Four-mile Bar, above the city, to the bottom at Culloms Ripple, 3.5 miles below the city.

City datum is 1.9 feet above zero of the gage and 432 feet above mean sea level. The upper level of Miami Canal is 123.5 feet above zero of the gage and 553.6 feet above mean sea level.

Bench mark, hexagonal copper bolt inserted in front of water table in Hamilton County court-house, is 117.1 above zero of the gage, and 547.2 feet above mean sea level.

Graduation extends from zero to 72 feet above. Highest water was 71.1 feet, on February 14, 1884; lowest, 1.9 feet, on September 17-19, 1881. Danger line is at 50 feet. At 48 feet the cellars along Front street begin to fill; at 51 feet the levee is entirely covered, and at 60 feet the distilleries and cattle yards are flooded.

#### CIRCLEVILLE, OHIO.

Circleville, Ohio. Established October 5, 1904. Is on the Scioto River, 83 miles from its mouth, and 27 miles below Columbus, Ohio. The width of the river at average low water is 450 feet. The drainage area above the station is 3,332 square miles.

The river gage, which belongs to the city of Circleville, is fastened with iron rods to the east end of the abutment on the north side of the Ohio Canal viaduct over the Scioto River, just west of Circleville. It is made of 3-inch planking, and is painted white with black graduations.

Zero of gage is approximately 675 feet above mean sea level. High-water mark of 1870, cut in ninth stone step of abutment to which gage is fastened, is 17.8 feet above zero of the gage. Top of rail in front of the Cincinnati and Muskingum Valley Railroad depot is 707 feet above mean sea level. Same in front of Norfolk and Western Railway depot is 687 feet above mean sea level.

Graduation extends in feet and inches from 1 foot below to 24 feet above zero. Highest water of record was 19.3 feet on July 17, 1884, although a somewhat higher stage was said to have been reached on January 23, 1904; lowest, 0.0, date unknown. Danger line is at 7 feet.

#### CLARENDON, ARKANSAS.

Clarendon, Ark. Established August 1, 1904. Is on the White River, 75 miles from its mouth, and 110 miles below Newport, Ark. The width of the river at average low water varies from 350 to 500 feet. The drainage area above the station is 25,004 square miles.

The river gage, which belongs to the United States Engineer Corps, is attached to the Clarendon side of the web connecting two cylinders of the pier at the east end of the draw span of the St. Louis Southwestern Railway bridge, and is immediately below the upper cylinder. It is in two vertical sections. The first section (3 to 19 feet), is made of 2 by 6 inch, and the second (19 to 38 feet), of 2 by 4 inch cypress timbers. Both sections are painted white, with graduations burned into the wood and painted black. Figures for even feet are painted only.

Stone post, No. 1. copper bolt in upper surface of 6 by 6 inch stone, 24 feet north and 30 feet west of court-house, in court-house yard, is 34.9 feet above zero of the gage, and 172.5 feet above mean sea level.

Standard railway bench mark of Clarendon, 49 feet south of crossing of St. Louis Southwestern and Arkansas Midland railways, and 24 feet east of main track of former, 4-inch wrought-iron pipe, planted 4 feet into the ground, and marked, "St. L. A. & T. Ry. B. M.", is 32.1 feet above zero of the gage, and 169.7 feet above mean sea level.

B. M. T., 1901, 5-inch lag screw driven into 20-inch sycamore tree, about 25 feet above first stone pier on Clarendon side of St. Louis Southwestern Railway bridge, and on side of tree facing bridge, 2.5 feet above ground, with file mark, +, on top, is 26.8 feet above zero of the gage, and 164.4 feet above mean sea level.

Graduation extends from 3 to 38 feet above zero. Highest water was 36.6 feet on March 20, 1890; lowest, 4.1 feet on November 22, 1887. Danger line is at 30 feet.

## CLARION, PENNSYLVANIA.

Clarion, Pa. Established in 1884. Is on the Clarion River, 32 miles from its mouth. The width of the river at average low water is 162 feet. The drainage area above the station is 865 square miles.

The river gage, which belongs to the Weather Bureau, was reconstructed in October, 1901. It is now located on the east abutment of the Clarion County bridge, and is in two sections. The first (—1 to 5 feet) is made of 2 by 12 inch oak timber, is painted white with graduations of brass tacks, and is spiked to the abutment. The second section (5 to 14 feet) is cut in the abutment, with painted white graduations on a black background.

Top line of abutment is 25.6 feet above zero of the gage, and about 1,077.6 feet above mean sea level.

Graduation extends from 1 foot below to 14 feet above zero. Highest water was 15.2 feet on May 21, 1894; lowest, —1.4 feet on September 4 and 5, 1894. Danger line is at 10 feet.

## CLARKSVILLE, TENNESSEE.

Clarksville, Tenn. Established December 1, 1900. Is on the Cumberland River, 126 miles from its mouth, and 67 miles below Nashville, Tenn. The width of the river at average low water is 175 feet. The drainage area above the station is 13,392 square miles.

The river gage, which belongs to the Weather Bureau, is in three sections, the lower inclined, and the two upper ones vertical. The first (0 to 41 feet) is about 200 feet in length, and is located at the lower or north end of paved wharf; the lower 12 feet (linear measure) consist of an iron T rail; the remainder of 2½ by 5 inch cedar timbers laid along the incline of the wharf. They rest on transverse sections of oak and cedar, 18 inches in length, and are spiked to them. Graduations are shown by means of large dots made with a steel center punch, even feet in Arabic figures. The second section (41 to 51 feet) is an upright cedar post, 6 inches square, and is an extension of the inclined section; it is painted white, and graduations are made with copper tacks. The third section (51 to 61 feet) is fastened to brick warehouse opposite the second section; it is a 2 by 6 inch cedar post, painted white, with graduations for feet and half feet in red, and for tenths of feet in black.

Top of rail in front of Louisville and Nashville Railroad depot is 66 feet above zero of the gage, and 394 feet above mean sea level. Top of upper ringbolt in wharf opposite office of Kendrick & Peters brick warehouse, at foot of street, is 29.5 feet above zero of the gage, and 357.5 feet above mean sea level.

Graduation extends from zero to 61 feet above. Highest water was 60.6 feet in January, 1882; lowest since establishment of station, 0.1 foot on September 15 and 16, 1902, and October 3–6, 1903. Danger line is at 42 feet.

## CLARKSVILLE, VIRGINIA.

Clarksville, Va. Established November 1, 1890. Is on the Roanoke River, 196 miles from its mouth and 67 miles above Weldon, N. C. The width of the river at average low water is 450 feet. The drainage area above the station is 7,344 square miles, of which 3,798 square miles belong to the Dan River.

The river gage, which belongs to the United States Geological Survey, is a standard chain and weight gage of that Bureau, and is located on the Southern Railway bridge, one-half mile from the town.

Top of stone pier, third from south end of bridge on which gage is located, is 24.9 feet above zero of the gage.

Graduation extends from 1 foot below to 13 feet above, and can be extended indefinitely. Highest water of record was 18.4 feet, on May 24, 1901. Tradition gives a record of 27 feet, on November 27, 1877. Lowest water was -0.4 foot, on September 13-17 and 21, 1897. Danger line is at 12 feet.

#### CLAY CENTER, KANSAS.

Clay Center, Kans. Established August 1, 1904. Is on the Republican River, 42 miles from its mouth. The width of the river at average low water is 200 feet. The drainage area above the station is 22,756 square miles. The river gage, which belongs to the Weather Bureau, is a chain and weight gage of the United States Geological Survey pattern, and is located on the south side of the east span of the highway bridge at the west end of Bridge street. The gage box is clamped to the upright braces supporting the iron arch of the bridge.

City B. M., cross cut in top of stone of east pier of bridge on which gage is located, at southeast corner of iron plate on which rests east end of east arch of south side of bridge, is 30.6 feet above zero of the gage, and 1,187.7 feet above mean sea level.

Southwest corner of stone water table of Quaker City Roller Mills building is 40.5 feet above zero of the gage and 1,197.6 feet above mean sea level.

Graduation extends from zero to 25 feet above, and can be indefinitely extended. Highest water of record was 24.8 feet, on May 29, 1903; lowest, 0.0, date unknown. Danger line is at 18 feet.

#### CLEARFIELD, PENNSYLVANIA.

Clearfield, Pa. Established May 1, 1902. Is on the West Branch of the Susquehanna River, 165 miles above its junction with the North Branch and 40 miles above Karthaus, Pa. The width of the river at average low water is 300 feet. The drainage area above the station is 693 square miles.

The river gage, which was built by public subscription, is located on the first pier from the abutment of the Market street highway bridge, 150 feet from the right bank. It is a 3 by 10 inch pine plank, painted white, with black graduations.

Top of rail in front of Pennsylvania Railroad station is 12.2 feet above zero of the gage and 1,107 feet above mean sea level. Top of rail in front of New York Central and Hudson River Railroad station is 10.2 feet above zero of the gage and 1,105 feet above mean sea level. Top bolt of three used to secure gage to pier is 17 feet above zero of the gage and 1,111.8 feet above mean sea level.

Zero of river gage was raised 1 foot in May, 1903, as the building of a dam about one-half mile below the bridge raised the water level to that amount.

Graduation extends from zero to 18.5 feet above. Danger line is at 8 feet.

#### CLINTON, IOWA.

Clinton, Iowa. Established July 1, 1904. Is on the Mississippi River, 1,629 miles from its mouth and 20 miles above Leclaire, Iowa. The width of the river at average low water is 2,700 feet. The drainage area above the station is 88,800 square miles.

The river gage, which belongs to the Clinton and Illinois Bridge Company, is near the downstream end, on the channel side, of the west high pier of the highway bridge over the Mississippi River, and is cut into the dressed stone surface of the pier.

City bench mark at intersection of Sixth avenue and flagstone walk leading to pumping station of waterworks, being a circle, ☉, about 2 inches in diameter, cut in top of stone located at point indicated, is 20.7 feet above zero of the gage and 587 feet above mean sea level.



Southeast corner of engine bed at pumping station of waterworks is 19.9 feet above zero of the gage and 586.2 feet above mean sea level.

Graduation extends from 3.3 to 20.5 feet above zero. Highest water was 20.5 feet, on June 25, 1880; lowest, 0.0, in 1864. Danger line is at 16 feet.

#### CLINTON, TENNESSEE.

Clinton, Tenn. Established in 1884. Is on the Clinch River, 52 miles above its mouth at Kingston, Tenn. The width of the river at average low water is 400 feet. The drainage area above the station is 2,750 square miles.

The river gage, ownership unknown, is attached to the middle pier of the Southern Railway bridge over the Clinch River. It is made of 4 by 10 inch heart pine, is painted white, and graduated with copper tacks.

Top of rail in front of Southern Railway depot is 62.6 feet above zero of the gage and 846 feet above mean sea level. Base of rail on bridge above gage is 57.7 feet above zero of the gage and 841.1 feet above mean sea level.

Graduation extends from zero to 48 feet above. Highest water was 45 feet, on March 31, 1886; lowest, 0.0, on December 4-8, 1883. Danger line is at 25 feet.

#### COHOES, NEW YORK.

Cohoes, N. Y. Established February 21, 1903. Is on the Hudson River, 158 miles from its mouth and 4 miles above Troy, N. Y. The width of the river at average low water is 1,280 feet. The drainage area above the station is 7,577 square miles.

The river gage, which belongs to the Weather Bureau, is attached to the gatehouse of the Cohoes Company. It is made of 1½ by 6 inch pine timber, painted white, with black graduations.

Graduation extends from 1 to 10 feet above zero. Danger line is at 5 feet.

#### COLGATE (DOBBINS P. O.), CALIFORNIA.

Colgate, Cal. Established October 1, 1904. Is on the Yuba River, near the junction of the Middle and North forks, and 28 miles above Marysville, Cal., at the mouth of the river. The width of the river at average low water is 200 feet. The drainage area above the station is 2,372 square miles.

The river gage, which belongs to the Weather Bureau, is located at the power house of the California Gas and Electric Company, and is made of wood.

Bench mark, cut in southwest wall of power house of Californian Gas and Electric Company, is 18 feet above zero of the gage.

Highest water was 15.6 feet, on February 22, 1904; lowest, 0.0, in August, 1904. Danger line is at 14 feet.

#### COLUMBIA, MISSISSIPPI.

Columbia, Miss. Established October 1, 1904. Is on the Pearl River, 110 miles from its mouth. The width of the river at average low water is 250 feet. The drainage area above the station is 5,339 square miles.

The river gage, which belongs to the Weather Bureau, is located on the Marion County steel highway bridge over Pearl River, about 2 miles south of Columbia, and is attached to the downstream side of the center pier. It is made of 2 by 12 inch timber, painted white, with graduations of brass figures and copper tacks.

Top of steel casing on southeast side of center pier on which gage is located is 30 feet above zero of the gage and 110 feet above mean sea level.

Graduation extends from zero to 30 feet above. Highest water was 24 feet, on April 21, 1874; lowest, 4 feet, on June 1, 1904. Danger line is at 14 feet.

#### COLUMBIA, SOUTH CAROLINA.

Columbia, S. C. River observations began October 1, 1891. Is on the Congaree River, 52 miles above its confluence with the Wateree. The distance to St. Stephens, S. C., on the Santee River, is 102 miles. The width of the river at average low water is 1,112 feet. The drainage area above the station is 7,815 square miles.

A new chain and weight river gage of the United States Geological Survey pattern was installed by the Weather Bureau on October 1, 1904. It is located on the Gervais street highway bridge, near the fourth pier from the east side. The Weather Bureau brass gage is still attached to the third pier, the new gage being used more particularly for low-water readings.

Top of rail at main line crossing of Atlantic Coast Line at Gervais street is 102.6 feet above zero of the gage, and 222 feet above mean sea level.

Graduation on the brass gage extends from 0.4 foot below to 34.7 feet above zero, and on the chain and weight gage from 3 feet below zero to as many feet above as may be necessary. Highest water was 34.4 feet, in September, 1852; lowest, -3 feet, on October 5-11, 1904. Danger line is at 15 feet.

#### COLUMBIA, TENNESSEE.

Columbia, Tenn. Established November 1, 1886. Is on the Duck River, 66 miles from its mouth and 76 miles above Johnsonville, Tenn., on the Tennessee River. The width of the river at average low water is 150 feet. The drainage area above the station is 1,207 square miles.

The river gage, which belongs to the Weather Bureau, is attached to the north side of the pier of the Columbia and Nashville turnpike bridge over Duck River, and is in two sections. The first section (0 to 42 feet) is made of 2 by 14 inch oak timber and is bolted to the stone pier. The second section (42 to 46 feet) is made of 2 by 8 inch white-oak timber. It is extended above and is fastened to the pier with a brace rod. Both sections are painted white with black graduations.

Top of stone step at south entrance to court-house is 87.4 feet above zero of the gage, and 606.8 feet above mean sea level.

Graduation extends from zero to 46 feet above. Highest water was 45.6 feet, on March 30, 1902; lowest, -0.4 foot, date unknown. Danger line is at 28 feet.

#### COLUMBIA, VIRGINIA.

Columbia, Va. Established July 1, 1898. Daily observations were commenced on July 1, 1904. Is on the James River, 167 miles from its mouth and 56 miles above Richmond, Va. The width of the river at average low water is 1,000 feet. The drainage area above the station is 5,800 square miles.

The river gage, which belongs to the Weather Bureau, is located about 750 feet below the mouth of the Rivanna River. It is made of 2 by 12 inch oak timber, and is in four sections. The first section (0 to 15 feet) is fastened by a cross-tie to a tree at the mouth of the gully, about 100 feet west of the Chesapeake and Ohio Railway depot, and the second section (15 to 17 feet) to the south side of the wooden framework, about 50 feet north of the first section. The third section (17 to 30 feet) is attached to the opposite side of the framework to which the second section is attached. The fourth section (30 to 42 feet) is attached to the southeast wooden upright support of the railroad water tank. Graduations are in brass figures and copper tacks.

Top of rail in front of Chesapeake and Ohio Railway depot is 29.8 feet above zero of the gage, and 206 feet above mean sea level.

Bench mark, southeast bottom edge of capstone of most easterly of two north foundation piers of railroad water tank is 28.9 feet above zero of the gage and 205.1 feet above mean sea level.

Graduation extends from zero to 42 feet above. Highest water was 40 feet, on September 30, 1870; lowest, -1.5 feet, on October 25, 1892. Danger line is at 18 feet.

#### COLUMBUS, GEORGIA.

Columbus, Ga. Reestablished July 1, 1904, after having been closed since October 31, 1898. Is on the Chattahoochee River, 140 miles from its mouth and 50 miles above Eufaula, Ala. The width of the river at average low water is 300 feet. The drainage area above the station is 4,561 square miles.

The river gage, which has been taken over by the Weather Bureau, is in two sections. The first section (-2 to 20 feet) is nailed to the downstream side of a brick pier in the river, near the left bank. The second section (20 to 65 feet) is fastened to a pier on the left bank. A duplicate gage (-1 to 9 feet) is fastened to the face of a pile about midway of the wharf. The entire gage is made of 2 by 6 inch timber, and is painted white, with black graduations.

Top of stone foundation of pier in river, at its southeast corner, is 18.6 feet above zero of the gage. Top of capstone under side of lower chord of bridge is 44.4 feet above zero of the gage.

Graduation extends from 2 feet below to 65 feet above zero. Highest water was 60 feet, in March, 1886; lowest of record, -1.5 feet, on October 10-16 and 18, 1897. Danger line is at 20 feet.

#### COLUMBUS, MISSISSIPPI.

Columbus, Miss. Established December 5, 1890. Is on the Tombigbee River, 303 miles from its mouth and 70 miles above Vienna, Ala. The width of the river at average low water is 160 feet. The drainage area above the station is 4,440 square miles.

The river gage, which belongs to the Weather Bureau, is located about 1,000 feet below the county highway bridge, and 1 mile from the Southern Railway station. It is made of 3 by 10 inch hard pine, and is fastened to the blue-rock bank with 20-inch spikes. Graduations are in brass figures and copper tacks.

Copper plug in tree at southeast corner of First street and Second avenue is 17.9 feet above zero of the gage and 153.6 feet above mean sea level. Top of rail in front of Southern Railway station is 55.2 feet above zero of the gage and 190.9 feet above mean sea level.

Graduation extends from 5 feet below to 40 feet above zero. Highest water was 42 feet, on April 8, 1892; lowest -3.9 feet, on October 26, 1893. Danger line is at 33 feet.

#### COLUMBUS, OHIO.

Columbus, Ohio. River observations began July 1, 1897. Is on the Scioto River, 110 miles above Portsmouth, Ohio, at its mouth, and 27 miles above Circleville, Ohio. The width of the river at average low water is 280 feet. The drainage area above the station is 1,582 square miles, of which 514 square miles belong to the Olentangy River.

The river gage, which belongs to the Weather Bureau, is a standard brass gage, and is attached to the west face of the east pier of the Mound street highway bridge over the Scioto River. It is painted white, with black-enameled graduations, and foot marks, 1 inch in depth, are cut into the stone of the pier and painted white.

City datum is 13 feet below zero of the gage and 680.3 feet above mean sea level. Datum is top of stone in foundation wall in northeast corner of statehouse.

Graduation extends from zero to 25 feet above. Highest water was 21.3 feet, on March 23, 1898; lowest, since 1898, 1 foot, on December 2-13, 1904. Danger line is at 17 feet.

## COLUMBUS, TEXAS.

Columbus, Tex. Established July 1, 1903. Is on the Colorado River 98 miles from its mouth. The width of the river at average low water is 270 feet. The drainage area above the station is 44,500 square miles.

The river gage, which belongs to the United States Geological Survey, is painted on the steel pier of the wagon bridge over the Colorado River, about 100 yards from the county jail.

Graduation is in feet, half, and quarter feet. Highest water of record was 34.9 feet, on August 1, 1903; lowest, 5.4 feet, on various dates in 1903 and 1904. Danger line is at 24 feet.

## COLUSA, CALIFORNIA.

Colusa, Cal. Established January 24, 1893. Is on the Sacramento River, 128 miles from its mouth and 28 miles above Knights Landing, Cal. The drainage area above the station is 15,943 square miles.

The river gage is located on the west side of Jones's warehouse. It is made of pine, with white graduations on a black ground, and belongs to the Weather Bureau.

Graduation extends from zero to 30 feet above. Highest water was 28.1 feet, date unknown; lowest, 0.4 foot, date unknown. Danger line is at 25 feet.

## CONCORD, NEW HAMPSHIRE.

Concord, N. H. Established November 1, 1902. Is on the Merrimac River, 94 miles from its mouth, and 26 miles above Manchester, N. H. The width of the river at average low water is 500 feet. The drainage area above the station is 2,143 square miles.

The river gage, which belongs to the Weather Bureau, is bolted to the west face of the pier on the north side of the intake wall on the right bank of the river at Sewalls Falls, about 2 miles above the city of Concord. It consists of a wrought-iron plate, 12 feet in length and 6 inches in width, and is painted white with black graduations.

Zero of the gage is 23 feet below top of dam at Sewalls Falls. A 6-inch spike, with 1 inch exposed, is driven into the wall exactly opposite the 10-foot mark on the gage.

Graduation extends from zero to 12 feet above, the zero mark corresponding to the bed of the river. Highest water of record was 13 feet, on March 2, 1896; lowest since establishment of station, 0.6 foot, on November 28, 1904.

## CONFLUENCE, PENNSYLVANIA.

Confluence, Pa. Established in 1883. Is on the Youghiogheny River at the mouth of Castlemans River, 59 miles from the mouth of the former, and 44 miles above West Newton, Pa. The width of the river at average low water is 330 feet. The drainage area above the station is 782 square miles.

A new river gage was installed by the Weather Bureau on August 1, 1903. It is located on the east side of the third pier on the east end of the Baltimore and Ohio Railroad bridge over the Youghiogheny River at Confluence, and is in two sections. The first (—1 to 2 feet) is a 2 by 8 inch oak plank fastened to the pier and to heavy timbers; the second (2 to 15.6 feet) is a 12-inch surface of cement placed against the pier. Both sections are painted black with white graduations.

Top of rail on Baltimore and Ohio Railroad bridge above referred to is 27.9 feet above zero of the gage and 1,351.9 feet above mean sea level.

Graduation extends from 1 foot below to 15.6 feet above zero. Highest water was 18 feet, on August 21, 1888; lowest, —0.8 foot, on September 14–29, 1884, and on October 4–23 and December 5–10, 1904. Danger line is at 10 feet.

## CONWAY, SOUTH CAROLINA.

Conway, S. C. Established December 1, 1893. Is on the Waccamaw River, 40 miles above its mouth at Winyaw Bay. The width of the river at average low water is 285 feet. The drainage area above the station is 1,140 square miles.

The river gage, which belongs to the United States Engineer Corps, is attached to the Conway toll bridge, near the draw, and about the center of the stream. It is made of 1 by 6 inch hard pine, painted white with black graduations.

Bench mark, cross cut on a step of the court-house, is 24 feet above zero of the gage and 49 feet above mean sea level.

Graduation extends from zero to 10 feet above. Highest water was 9 feet, on February 9, 1905; lowest, 0.0, on August 16, 1889. Danger line is at 7 feet.

## CORDOVA, ALABAMA.

Cordova, Ala. Established December 1, 1890. Is on the Black Warrior River, 155 miles from its mouth, and 65 miles above Tuscaloosa, Ala. The width of the river at average low water is 180 feet. The drainage area above the station is 1,900 square miles.

The river gage is located about three-fourths of a mile from the town, and is in two sections. The first section (— 1.5 to 12.5 feet), which belongs to the United States Geological Survey, is inclined, and is spiked to a willow tree on the right bank of the river, about 200 feet below the Kansas City, Memphis and Birmingham Railroad bridge. It is made of 2 by 10 inch planking. The second section (12 to 55 feet), which belongs to the Weather Bureau, is a vertical pine plank, and is bolted to the inside of the stone pier of the same bridge, on the left bank of the river. It is painted white, with graduations of copper tacks and black-painted figures.

Graduation extends from 1.5 feet below to 55 feet above zero. Highest water was 57 feet, on April 8, 1892; lowest, —2.6 feet, on September 28 and 29, 1896. Danger line is at 20 feet.

## CORINTH, NEW YORK.

Corinth, N. Y. Established February 21, 1903. Is on the Hudson River, 217 miles from its mouth and 20 miles above Glens Falls, N. Y. The width of the river at average low water is 650 feet. The drainage area above the station is 2,280 square miles.

The river gage, which belongs to the Weather Bureau, is attached to the masonry of a bridge one-half mile north of the village of Corinth. It is made of 1 by 12 inch timber, and is painted white with black graduations.

Metal bench mark of United States Coast and Geodetic Survey at Baptist church in Corinth is 84.5 feet above zero of the gage and 626 feet above mean sea level. Railing of bridge near gage is 14.5 feet above zero of the gage and 556 feet above mean sea level.

Graduation extends from zero to 12 feet above. Danger line is at 10 feet.

## COSHOCTON, OHIO.

Coshocton, Ohio. Established December 16, 1904. Is on the Tuscarawas River near the junction of the Tuscarawas and Walhonding rivers, or the head of the Muskingum. The distance to Zanesville, Ohio, on the Muskingum River, is 29 miles. The width of the Tuscarawas River at average low water is 300 feet, and that of the Walhonding 100 feet. The drainage area above the station is 4,829 square miles.

The river gage, which belongs jointly to the city of Coshocton and the Weather Bureau, is attached to the downstream end of the east pier of the Toledo, Walhonding Valley and Ohio

Railroad bridge over the Tuscarawas River, and is made of wood, painted white with black graduations. Even feet are shown by brass figures.

City datum point, which corresponds with zero of the gage, is 730.5 feet above mean sea level.

B. M., seventh step from top of south wing wall of east abutment of Toledo, Walhonding Valley and Ohio Railroad bridge, is 11.9 feet above zero of the gage and 742.4 feet above mean sea level.

Graduation extends from 2 feet below to 24 feet above zero. Highest water was about 22 feet, in 1898; lowest, - 1.1 feet, in the fall of 1904. Danger line is at 10 feet.

#### CRESTON, WEST VIRGINIA.

Creston, W. Va. Established September 10, 1900. Is on the Little Kanawha River 38 miles from its mouth. The width of the river at average low water is 132 feet. The drainage area above the station is 1,347 square miles.

The river gage, which belongs to the Weather Bureau, is located beside a large elm stump 20 feet from wharf landing. It is made of 2 by 10 inch oak, is painted white with black graduations, and is attached to a chestnut pole 40 feet in length, 18 inches in diameter at the butt and 12 inches at the top.

Graduation extends from zero to 32 feet above. Highest water since establishment of station was 25.8 feet, on April 20, 1901; lowest, - 1.3 feet, on September 30, 1900. Danger line is at 20 feet.

#### CUMBERLAND, MARYLAND.

Cumberland, Md. Established September 1, 1901. Is on the North Branch of the Potomac River, 21 miles above its junction with the South Branch, 118 miles above Harpers Ferry, W. Va., on the Potomac, and 290 miles from the mouth of the latter. The width of the river at average low water is 300 feet. The drainage area above the station is 891 square miles.

The river gage, which belongs to the Weather Bureau, is attached to the south face of the east end wall of the dam across the Potomac River, just below the mouth of Wills Creek, and just above the West Virginia Central Railway bridge. It is made of 1½ by 12 inch Georgia pine, painted white, with graduations burned into the wood and painted black.

United States Geological Survey B. M. I., 1878, on coping of feed lock of Chesapeake and Ohio Canal at Cumberland, is 21 feet above zero of the gage and 623.2 feet above mean sea level. Top of rail in front of West Virginia Central Railway depot is 23 feet above zero of the gage and 625.2 feet above mean sea level. Top of rail in front of Baltimore and Ohio Railroad station is 38.8 feet above zero of the gage and 641 feet above mean sea level. Zero of gage corresponds to bed of river in channel between first and second piers from the Maryland side of the West Virginia Central Railway bridge.

Graduation extends from zero to 16 feet above. Highest water since establishment of station was 11.5 feet, on March 1, 1902; lowest, 0.0, on September 18-25, 1902, and on September 15-October 2, 1904. Danger line is at 8 feet.

#### DALLAS, TEXAS.

Dallas, Tex. Established July 1, 1903. Is on the Trinity River, 320 miles from its mouth, and 109 miles above Long Lake, Tex. The width of the river at average low water is 30 feet. The drainage area above the station is 4,000 square miles.

A new chain and weight river gage of the United States Geological Survey pattern was installed by the Weather Bureau on June 1, 1904, and is attached to the guard rail of the Commerce street highway bridge. The old timber gage was just underneath.

Top of tie on Texas and Pacific Railway bridge over Trinity River is 56.5 feet above zero of the gage, and 422 feet above mean sea level.

Graduation extends from zero to 40 feet above, and can be further extended, if necessary. Highest water was 56.5 feet, in June, 1866; high water of July 6, 1903, was 32.7 feet; lowest of record, 1.8 feet, on various dates in 1903 and 1904. Danger line is at 25 feet.

#### DANDRIDGE, TENNESSEE.

Dandridge, Tenn. Established December 1, 1904. Is on the French Broad River, 46 miles from its mouth. The width of the river at average low water is 475 feet. The drainage area above the station is 5,634 square miles.

The river gage, which belongs to the Weather Bureau, is located on the left bank of the river, opposite the town of Dandridge, and at Dandridge ferry. It is attached to a large river maple tree at the water's edge, and is made of 3 by 12 inch heart pine, graduated with brass figures and copper tacks.

Graduation extends from 1 foot below to 36 feet above zero. Highest water was about 32 feet, in 1875 or 1876. There is a tradition of a stage of 40 feet, in March, 1867. High water of May 21, 1901, was 28 feet. Lowest water was 0.3 foot, on December 24, 1904. Danger line is at 15 feet.

#### DANVILLE, VIRGINIA.

Danville, Va. Established November 1, 1890. Is on the Dan river, 55 miles above the confluence of the Dan and Staunton rivers at Clarksville, Va. The width of the river at average low water is 750 feet. The drainage area above the station is 1,900 square miles.

The river gage, which belongs to the Weather Bureau, is attached to the first pier of the iron highway bridge between North and South Danville. It is made of 2 by 12 inch pine timber, and is painted white, with graduations of brass figures and copper tacks.

Top of rail in front of Southern Railway depot is 33.7 feet above zero of the gage and 413 feet above mean sea level. Top of stone pier to which gage is attached is 23.1 feet above zero of the gage and 402.4 feet above mean sea level.

Graduation extends from zero to 25 feet above. Highest water was 13.1 feet, on March 20, 1899; lowest, -0.6 foot, on October 20 and October 31-November 12, 1904. Danger line is at 8 feet.

#### DARDANELLE, ARKANSAS.

Dardanelle, Ark. Established in 1886. Is on the Arkansas River, 256 miles from its mouth and 80 miles above Little Rock, Ark. The width of the river at average low water is 800 feet. The drainage area above the station is 144,139 square miles.

The river gage is made of pine with black graduations on a white ground. It is fastened vertically to the piling of the pontoon bridge, and is owned by the bridge company.

There is no reference bench mark in the immediate vicinity. Nearest one is at Russellville, Ark., about 5 miles distant, and is bottom of square hole cut in stone foundation to main entrance of court-house. It is on right of entrance going into building, and its number is XVI. Elevation above mean sea level, 348.2 feet.

Graduation extends from zero to 31 feet above. Highest water was 29.4 feet, on May 10, 1898; lowest, -0.7 foot, on October 29-November 3, 1897. Danger line is at 21 feet.

#### DAVENPORT, IOWA.

Davenport, Iowa. River observations began May 18, 1873. Is on the Mississippi River, 1,593 miles from its mouth and 31 miles above Muscatine, Iowa. The width of the river at average low water is 2,640 feet. The drainage area above the station is 93,000 square miles.

The river gage, which belongs to the United States War Department, is made of cast bronze, the graduation marks being planed into the metal. Figures are of brass and are riveted on the gage. The gage is fastened to the draw pier of the Government bridge, on the upstream side, inside of stone protection crib, and is connected with the river by a large well. Zero of gage is low water of 1864.

Permanent bench mark, 40, M. R. C., on base of stone tower of United States arsenal (stone building) at lower end of Arsenal Island, Rock Island, Ill., is center of hole in copper bolt in east side of northeast corner, about 4 feet from ground. It is 35.1 feet above zero of gage and 577.3 feet above mean sea level.

City datum is 4.7 feet below zero of the gage and 537.5 feet above mean sea level.

Graduation extends from 3 feet below to 20 feet above zero. Highest water was 19.4 feet, on June 27, 1892; lowest, -0.8 foot, on January 6, 1890, and November 30, 1898. Danger line is at 15 feet.

#### DAVIS ISLAND DAM, PENNSYLVANIA.

Davis Island Dam, Pa., is on the Ohio River, 960 miles from its mouth, 35 miles above Beaver Dam, Pa., and 6 miles below Pittsburg, Pa. The width of the river at average low water is 1,344 feet. The drainage area above the station is 19,618 square miles.

The river gage, which belongs to the United States Engineer Corps, is in two sections. The lower one (0 to 17 feet) is cut in the stone of the lower end of the lock wall. The upper section (17 to 26.6 feet) is cut in the steps leading to the office. Graduations on the lower section are Roman figures cut in the lock wall. They are each 6 inches in height, and the top of each figure is the half-foot mark. Intermediate readings are estimated.

Zero of gage is sill of lock and is 690.3 feet above mean sea level.

Graduation extends from zero to 26.6 feet above. Highest water was 32.3 feet, on February 7, 1884; lowest, 0.7 foot, on September 5, 1894. Danger line is at 25 feet.

#### DAYTON, OHIO.

Dayton, Ohio. Established October 1, 1892. Is on the Miami River, 77 miles from its mouth. The distance to Madison, Ind., on the Ohio River is 134 miles. The width of the river at average low water is 600 feet. The drainage area above the station is 2,436 square miles.

The river gage, which belongs to the Weather Bureau, was reconstructed during the summer of 1903, and again in August, 1904. It is located on the west side of the concrete bridge over the Miami River at Main street. It is attached to the first pier from the south end of the bridge, and is made of 2 by 12 inch pine timber, painted white, and graduated with brass figures and copper tacks.

Top of lower course of masonry of lower step of Soldiers' Monument at southwest corner of same, directly south of bridge, is 24.9 feet above zero of the gage and 749 feet above mean sea level. Top of rail in Union depot is 13 feet above zero of the gage and 737.1 feet above mean sea level.

Graduation extends from 1 foot below to 23 feet above zero. Highest water was 21.3 feet in 1866; lowest, 0.0, on October 27, 1895. Danger line is at 18 feet.

#### DEFIANCE, OHIO.

Defiance, Ohio. Established November 16, 1904. Is on the Auglaize River, just above its confluence with the Maumee River, and 17 miles above Napoleon, Ohio, on the Maumee River. The width of the river at average low water is 390 feet. The drainage area above the station is 3,838 square miles, of which 1,911 square miles belong to the watershed of the Auglaize River.



The river gage, which belongs to the Weather Bureau, is a chain and weight gage of the United States Geological Survey pattern, and is located on the Hopkins street highway bridge over the Auglaize River.

Hand rail on balustrade above pulley of gage is 28.1 feet above zero of the gage. Permanent bench mark, cross cut in coping of south wing of west abutment of Hopkins street bridge, is 22.1 feet above zero of the gage.

Graduation extends from zero to as far above as may be necessary. Highest water was about 15.8 feet, in 1883. High water of April 3, 1904, was 14.8 feet. Lowest water of record was 0.5 foot, in December, 1904. Danger line is at 10 feet.

#### DEMOPOLIS, ALABAMA.

Demopolis, Ala. Established October 1, 1892. Is on the Tombigbee River, at the mouth of the Black Warrior River, and 155 miles from the mouth of the former. The distance to Mobile is 231 miles. The river is 300 feet wide at average low water. The drainage area above the station is 15,280 square miles.

The river gage, which belongs to the Weather Bureau, is on the south bank of the Big Tombigbee River at Demopolis. The top of the gage lies 20 feet northwest of the northwest corner of Webb's warehouse, and it is attached to the sloping lime-rock bank by iron rods and two wooden posts. It is made of 8 by 8 inch heart pine, with an iron strap, 2 by three-eighths inches, fastened to the top side throughout its entire length. The foot marks are of brass, while intermediate markings are cut in the strip.

Bench mark on northeast corner of Washington and Strawberry streets, on southeast corner of Cheshire Webb Building, on east end of base stone under window east of east entrance, 6 inches above sidewalk, being top of copper bolt leaded vertically, is 100.2 feet above zero of the gage and 128.4 feet above mean sea level. Top of track at Southern Railway freight depot is 82.1 feet above zero of the gage and 110.3 feet above mean sea level.

Graduation extends from 2.3 feet below to 68 feet above zero. Highest water was 68.7 feet, on April 22, 1900; lowest, -3.9 feet, on October 26-30, 1895, and September 27 and 28, 1896. Danger line is at 35 feet.

#### DERRY STATION, PENNSYLVANIA.

Derry Station, Pa., is on McGees Run.

The river gage is made of 1½ by 9 inch white pine, and is attached to the cribbing on the south side of Third street. It belongs to the Derry Water Company.

Copper bolt on north end of pier of open bridge is 1,169 feet above mean sea level. Square on base course of east side of Pennsylvania Railroad roundhouse is 1,182 feet above mean sea level.

Graduation extends up to 5 feet. Danger line is at 4 feet.

#### DES MOINES, IOWA.

Des Moines, Iowa. River observations began July 1, 1897. Is on the Des Moines River, 205 miles from its mouth and 111 miles above Ottumwa, Iowa. The width of the river at average low water is 300 feet. The drainage area above the station is 10,624 square miles, of which 3,159 square miles belong to the Raccoon River watershed.

The river gage, which belongs to the Weather Bureau, is located on south face of west pier of the Locust street bridge. It is made of 2½ by 10 inch timber, and is painted white. Graduations are shown by copper tacks.

Bench mark, gridiron cut in stone cap of pier, is 26.9 feet above zero of the gage and 809.9 feet above mean sea level. Top of track in Chicago, Rock Island and Pacific Railway depot is 17.1 feet above zero of the gage and 800.1 feet above mean sea level.

Graduation extends from 0.5 foot below to 26.9 feet above zero. Highest water was 23.5 feet on May 31, 1903. Flood of 1851 is said to have been 1.1 feet lower; lowest, 0.0, date unknown. Danger line is at 19 feet.

#### DODGE CITY, KANSAS.

Dodge City, Kans. River observations began February 24, 1903. Is on the Arkansas River, 1,036 miles from its mouth and 203 miles above Wichita, Kans. The river bed is about 600 feet in width, with 4 or 5 foot banks, but the usual low-water width of the stream is about 10 feet, with a depth of 1 foot. The drainage area above the station is 30,678 square miles.

The river gage, which belongs to the Weather Bureau, is located 53 feet from south end of county highway bridge over the river at foot of Bridge street, and is bolted to a heavy pile under west side of bridge. It is made of wood, painted white with black graduations.

Graduation extends from zero, or the bottom of the river, to 9 feet above.

#### DONALDSONVILLE, LOUISIANA.

Donaldsonville, La. Established as a river station of the Weather Bureau on July 1, 1903. Is on the Mississippi River, 188 miles from its mouth, and 80 miles above New Orleans, La. The width of the river at average low water is 2,900 feet. The drainage area above the station is 1,230,600 square miles.

The river gage, which belongs to the United States Engineer Corps, is situated outside the levee at the foot of Houmas street, and is attached to the piling of the wharf. It is a vertical gage in four sections, and is made of 1 by 6 inch timber, with graduations painted thereon. Sections are scaled as follows: No. 1, 1 to 6.3 feet; No. 2, 6.3 to 17.7 feet; No. 3, 14.5 to 22 feet; No. 4, 20.3 to 35 feet.

B. M. W. (Ewens, 1900) is top surface of wrought-iron hinge spike with circular head, driven horizontally into upstream face of uppermost pilaster of front or river end of public market house; spike is 1.4 feet above base of pilaster and 0.7 foot from front edge. The letter W is scratched on stucco coating of wall, just below spike. Elevation above zero of gage, 28.7 feet; above mean sea level, 27.7 feet. B. M. B. is top of letter B, in name of N. Bel, on iron door-plate of Chetematchez street doorway of building occupied by Mohawk Club, at northwest corner of Chetematchez and Mississippi streets. Elevation above zero of gage, 27.5 feet; above mean sea level, 26.5 feet.

Graduation extends from 1 to 35 feet above zero. Highest water was 32.8 feet, on May 13, 1897; lowest, 1 foot, on November 11, 1894. Danger line is at 28 feet.

#### DRIFTWOOD, PENNSYLVANIA.

Driftwood, Pa., is on Sinnamahoning Creek. It is 12 miles above Sinnamahoning, Pa. The drainage area above the station is 672 square miles.

The river gage is painted on a bridge pier and belongs to the county.

Zero of the gage is 796.4 feet above mean sea level and 15.6 feet below top of rail in Pennsylvania Railroad depot.

Graduation extends from 4 to 16 feet above zero. Highest water was 16 feet, date unknown; lowest, 1 foot, on July 14-25, 1898, and on other dates previous to 1896. Danger line is at 18 feet.

#### DUBLIN, GEORGIA.

Dublin, Ga. Established December 1, 1893. Is on the Oconee River, 79 miles from its mouth. The width of the river at average low water is 235 feet. The drainage area above the station is 4,182 square miles.

The river gage, which belongs to the Weather Bureau, is attached to the downstream side of the center pier of the Wrightsville and Tennille Railroad drawbridge. It is made of 5 by 8 inch timber, graduated with brass figures and copper tacks. There is also a secondary gage attached to a cypress tree on the right bank of the river, about 200 feet above the bridge where the main gage is located.

B. M. 1, top of upstream end of crossbeam on top of first tubular pier of bridge where gage is located, is 41.3 feet above zero of the gage.

B. M. 2, point on fifth step from bottom at south entrance of court-house, and 6 inches from east end of step, is 82.5 feet above zero of the gage.

B. M. 3, top of granite water table, 2.5 feet west of southeast corner of court-house, is 81 feet above zero of the gage.

B. M. 4, three large nails driven into cypress tree to which secondary gage is attached, is 3 feet above zero of the gage.

Graduation extends from 1 foot below to 30 feet above zero. Highest water was 25.8 feet on March 5, 1902; lowest, -1.5 feet, on October 18, 20-26, 1904. Danger line is at 30 feet.

#### DUBUQUE, IOWA.

Dubuque, Iowa. River observations began October 1, 1873. Is on the Mississippi River, 1,699 miles from its mouth, and 70 miles above Clinton, Iowa. The width of the river at average low water is 2,700 feet. The drainage area above the station is 77,000 square miles.

The river gage is located on the north side of the main pier of the Illinois Central Railroad bridge, and belongs to the Weather Bureau. It is placed inside the structure on which the draw works, and is made of 2 by 10 inch pine scantling, with graduations of copper tacks.

U. S. P. B. M., 279 (M. R. C.), center mark of copper bolt leaded horizontally in northeast corner of United States post-office building, 10 inches south of north corner, and 3 feet above stone paving, is 59.2 feet above zero of the gage and 644.6 feet above mean sea level.

Graduation extends from zero to 19.5 feet above. Highest water was 21.7 feet, on June 23, 1880; lowest, -0.5 foot, on November 28, 1895. Danger line is at 15 feet.

#### DUNCANNON, PENNSYLVANIA.

Duncannon, Pa., is on the Susquehanna River at the mouth of the Juniata. It is 82 miles from the mouth of the Susquehanna, and 13 miles above Harrisburg, Pa.

The river gage, which belongs to the Pennsylvania Railroad Company, is painted on the south abutment of the Sherman Creek railroad bridge, and is graduated in feet and half feet.

Graduation extends up to 17 feet, but low-water stages can not be measured, as the creek in the vicinity of the gage has been filled with cinders.

#### EAGLE PASS, TEXAS.

Eagle Pass, Tex. Established January 1, 1901. This station is on the Rio Grande, and is maintained as a portion of the Rio Grande flood service with the cooperation of the U. S. Signal Corps.

#### EAST BLOOMSBURG, PENNSYLVANIA.

East Bloomsburg, Pa. Is on the North Branch of the Susquehanna River, 23 miles from its mouth and 30 miles above Selinsgrove, Pa. The drainage area above the station is 12,055 square miles.

The river gage, which belongs to the Pennsylvania Railroad Company, is painted on the bridge pier, and graduated in feet and half feet.

Graduation extends from 3 to 29 feet above zero. Highest water since 1865 was 26 feet, on March 2 and 3, 1902; lowest, 0.0, at various times. Danger line is at 29 feet.

#### EATON RAPIDS, MICHIGAN.

Eaton Rapids, Mich. Established December 1, 1904. Is on the Grand River, 166 miles from its mouth, and 26 miles above Lansing, Mich. The width of the river at average low water is 150 feet. The drainage area above the station is 102 square miles.

The river gage, which belongs to the Weather Bureau, is a chain and weight gage of the United States Geological Survey pattern, and is located on the east Knight street iron highway bridge, the gage box resting on the floor of the bridge, outside the downstream guard rail, 4 feet west of the middle pier.

Bench mark, X, on downstream side of east Knight street highway bridge floor, immediately above center of east abutment, is 15.1 feet above zero of the gage, and 873.3 feet above mean sea level. Top of rail at center of Lake Shore and Michigan Southern Railway bridge over Spring Brook, 1,400 feet south of passenger station, is 16.2 feet above zero of the gage, and 874.4 feet above mean sea level.

Graduation extends from zero to 14 feet above, and can be extended indefinitely. Highest water was 9.2 feet, on March 26 and 27, 1904; lowest, unknown. Danger line is at 6 feet.

#### EDISTO, SOUTH CAROLINA.

Edisto, S. C. Established December 1, 1893. Is on the Edisto River, 75 miles from its mouth. The width of the river at average low water is 360 feet. The drainage area above the station is 1,806 square miles.

The river gage, which belongs to the Weather Bureau, is attached to the downstream end of the central row of piles supporting the Southern Railway bridge over the Edisto River. It is made of 2 by 8 inch hard pine, and is painted white, with graduations of brass figures and copper tacks.

Top of rail on bridge above mentioned is 16 feet above zero of the gage, and 143 feet above mean sea level.

Graduation extends from zero to 9 feet above. Highest water was 8.5 feet, in July, 1889; lowest, 0.0, on November 23, 1887. Danger line is at 6 feet.

#### EFFINGHAM, SOUTH CAROLINA.

Effingham, S. C. Established April 1, 1891. Is on Lynch Creek, 35 miles above its junction with the Pedee River. The distance to Smiths Mills, on the Pedee, is 40 miles. The drainage area above Effingham is 1,200 square miles.

The river gage, which belongs to the Weather Bureau, is made of 1 by 5 inch hard pine, and is in two sections. The first (0 to 6 feet) is bolted to a large pile in midstream; the second (6 to 20 feet) is attached to a tree on the river bank. Both are painted white, with black graduations.

Top of rail on Atlantic Coast Line bridge is 27 feet above zero of the gage, and 92 feet above mean sea level.

Graduation extends from zero to 20 feet above. Highest water was 17.5 feet, on January 24, 1892; lowest, 0.0, in June, 1884. Danger line is at 12 feet.

## ELLWOOD JUNCTION, PENNSYLVANIA.

Ellwood Junction, Pa. Established December 11, 1893. Is on the Beaver River, 10 miles from its mouth. The width of the river at average low water is 500 feet. The drainage area above the station is 1,645 square miles.

The river gage, which belongs to the United States Engineer Corps, is cut into the west pier of the Beaver and Ellwood bridge.

Bench mark, cut on pier to which gage is attached, near fifth joint from coping on nose of pier, is 10 feet above zero of the gage, and 740 feet above mean sea level.

Graduation extends from zero to 21 feet above. Highest water was 22.8 feet, on March 1, 1904; lowest, -3.1 feet, on August 7-20, 1894. Danger line is at 14 feet.

## EL PASO, TEXAS.

El Paso, Tex. River observations began January 1, 1901. Is on the Rio Grande, 1,030 miles from its mouth. The drainage area above the station is 38,619 square miles.

The river gage, which is said to belong to the United States Treasury Department, is attached to the second bent from the American side of the Stanton street bridge over the Rio Grande. Bents, or supports, are about 10 feet above the bed of the river. Gage is made of 1 by 6 inch timber, and graduated in feet and inches with black paint.

High water of October 15, 1904, was 13.5 feet. Danger line is at 14 feet.

## ENTERPRISE, MISSISSIPPI.

Enterprise, Miss. Established October 1, 1904. Is on the Chickasawhay River, 144 miles from its mouth, and 38 miles above Shubuta, Miss. The width of the river at average low water is 40 feet. The drainage area above the station is 824 square miles.

The river gage, which belongs to the Weather Bureau, is located on the Clark County highway bridge over the Chickasawhay River, about one-fourth mile from the Mobile and Ohio Railroad station. The bridge is a covered wooden one, with brick piers. The gage is of the chain and weight pattern of the United States Geological Survey, but with only a 4-foot gage box and a 36-foot extension scale.

United States bench mark, copper bolt in door of Chickasawhay Mills, is 33 feet above zero of the gage, and 245 feet above mean sea level. A 20-penny nail driven into third support from river, downstream side of bridge on which gage is located, and 4 feet from ground, is 26 feet above zero of the gage, and 238 feet above mean sea level.

Graduation extends from zero to 40 feet above. Highest water was 35 feet in April, 1902; lowest, 0.0, in June, 1904. Danger line is at 18 feet.

## EUFAULA, ALABAMA.

Eufaula, Ala. Established April 1, 1892. Is on the Chattahoochee River, 90 miles from its mouth, and 60 miles above Alaga, Ala. The width of the river at average low water is 330 feet. The drainage area above the station is 6,900 square miles.

The river gage, which belongs to the Weather Bureau, is located on the west side of the brick pier of the public highway bridge at the end of Broad street. It is made of hard wood, and is painted white, with black graduations, which are also cut into the wood.

Top of rail in front of Central Railway of Georgia depot is 138.8 feet above zero of the gage, and 200 feet above mean sea level. Top of masonry of bridge pier on which gage is located is 69.1 feet above zero of the gage, and 130.3 feet above mean sea level.

Graduation extends from zero to 60 feet above. Highest water was 56 feet, on March 28, 1888, and March 2, 1902; lowest, -0.8 foot, on November 4, 1895. Danger line is at 40 feet.

#### EUGENE, OREGON.

Eugene, Oreg. Established January 1, 1892. Is on the Willamette River, 184 miles from its mouth, and 20 miles above Harrisburg, Oreg. The width of the river at average low water is 240 feet. The drainage area above the station is 520 square miles.

The river gage, which belongs to the Weather Bureau, is located on the north side of the middle pier of the county bridge over the Willamette River. It is made of 2 by 8 inch fir timber, with painted graduations.

Top of rail in front of Southern Pacific Railroad depot is 27.5 feet above zero of the gage, and 453 feet above mean sea level.

Graduation extends from 2.6 to 30 feet above zero. Highest water was 22 feet, in January, 1889; lowest, -2 feet, on November 30 and December 1, 1884. Danger line is at 10 feet.

#### EVANSVILLE, INDIANA.

Evansville, Ind. River observations began April 22, 1873. Is on the Ohio River, 184 miles from its mouth, and 36 miles above Mount Vernon, Ind. The width of the river from bank to bank is 3,300 feet. The drainage area above the station is 102,300 square miles.

The river gage, which belongs to the United States Engineer Corps, was entirely reconstructed in 1901. It is located at the foot of Main street, and is in three sections. The first (0.0 to 0.8 foot) is inclined, and consists of a piece of 4 by 12 inch hard-wood timber embedded in concrete and with an iron strap one-fourth by 4 inches fastened on its top. The second section (0.8 to 46.3 feet) is laid along the incline of the levee, and is made of T rails, fastened end to end with standard double fish plates. The rails weigh 60 pounds to the yard and are laid inverted in a bed of concrete 18 inches in depth and 24 inches in width and resting on a 9 by 30 inch foundation. Top dressing is finished smooth and has figures for even feet stamped into it. Figures are 4½ inches in height and three-eighths inch in depth. They are filled with red cement and are placed on the downstream side of the rail with their bases toward the river. Graduation marks are cut one-eighth inch wide and one-sixteenth inch deep on the top surface of the rail. At each even foot they extend entirely across the rail, and are also indicated by figures 1½ inches in height cut into the rail. The third section (46.3 to 49.3 feet) is painted on an electric-light pole near the first section.

United States Geological Survey P. B. M., June 10, 1901, on sill of front side of Federal building, Evansville, Ind., is 64.8 feet above zero of the gage, and 393.9 feet above mean sea level. Top of rail in front of Evansville and Terre Haute Railroad depot is 53.5 feet above zero of the gage, and 382.6 feet above mean sea level.

Graduation extends from zero to 49.3 feet above. Highest water was 48.8 feet on February 19, 1884; lowest, -0.3 foot, on November 7 and 8, 1895. Danger line is at 35 feet.

#### FAIRBLUFF, NORTH CAROLINA.

Fairbluff, N. C. Established December 1, 1893. Is on the Lumber River, about 10 miles above its junction with the Little Pedee. The distance to the mouth of the Pedee River is 80 miles. The drainage area above the station is 410 square miles.

The river gage, which belongs to the Weather Bureau, is located on east abutment of the free bridge. It is made of 2 by 10 inch hard pine, painted white, and graduated with brass figures and copper tacks.

Top of rail on Atlantic Coast Line bridge is 14 feet above zero of the gage, and 73 feet above mean sea level. Top of rail in front of Atlantic Coast Line depot is 10 feet above zero of the gage, and 69 feet above mean sea level.

Graduation extends from zero to 9 feet above. Highest water was 9 feet, in March, 1848; lowest, -1.4 feet, on August 28, 1900. Danger line is at 6 feet.

Station closed August 31, 1900.

#### FAIRMONT, WEST VIRGINIA.

Fairmont, W. Va. Established January 1, 1892. Is on the Monongahela River, 119 miles from its mouth, and 38 miles above Greensboro, Pa. The width of the river at average low water is 390 feet. The drainage area above the station is 2,320 square miles.

A new river gage was installed by the Weather Bureau in June, 1901. It is located on the right bank of the Monongahela River, about 200 feet below the suspension bridge. It is attached to the northeast side of Barnes's mill, about 20 feet from the river bank, and is made of 1½ by 10 inch poplar timber with graduations of brass tacks.

Top of rail in front of Baltimore and Ohio Railroad depot is 43.2 feet above zero of the gage, and 888 feet above mean sea level. Southwest corner of bridge seat of abutment, Fairmont suspension bridge, is 54.9 feet above zero of the gage, and 899.7 feet above mean sea level. Top surface of foundation wall to which gage is attached is 23.9 feet above zero of the gage, and 868.7 feet above mean sea level.

Graduation extends from 0.5 foot below to 37.5 feet above zero. Highest water was 37 feet, on July 10, 1888; lowest, -0.8 foot, on September 21-24, 1892. Danger line is at 25 feet.

#### FALMOUTH, KENTUCKY.

Falmouth, Ky. Established June 4, 1887. Is on the Licking River, 30 miles above Cincinnati, Ohio, at its mouth. The width of the river at average low water is 225 feet. The drainage area above the station is 2,900 square miles.

The river gage, which belongs to the Weather Bureau, is a 2 by 9 inch oak plank, and is fastened to the downstream face of the stone abutment of the bridge. Zero of the gage is the surface of the flat rock upon which is built the eastern abutment of the bridge. The gage is painted and is graduated by means of copper tacks.

Bench mark on doorsill of Pendleton County court-house is 49.2 feet above zero of the gage, and 561.4 feet above mean sea level.

Graduation extends from zero to 40 feet above. Highest water of record was 28.2 feet, on December 16, 1902; lowest, 0.0, in 1887, on October 17-20, 1897, and October-November 2, 1904. A high-water stage of 38 feet is said to have occurred in 1854. Danger line is at 25 feet.

#### FARMERS, KENTUCKY.

Farmers, Ky. Established October 5, 1904. Is on the Licking River, 129 miles from its mouth, and 99 miles above Falmouth, Ky. The drainage area above the station is 568 square miles.

The river gage, which belongs to the Weather Bureau, is located in the rear of the Emery sawmill, and is attached, partly to an abutment for trapping logs, and partly to the west turntable of the mill, and is in two sections. The first section (0 to 3 feet) is attached to the abutment, and the second (13 to 26 feet) to the west turntable. Both sections are made of 2 by 10 inch oak, painted white, with graduations of brass figures and copper tacks.

Top of rail in front of Chesapeake and Ohio Railroad station is 28 feet above zero of the gage, and 668 feet above mean sea level.

Graduation extends from zero to 3 feet, and from 13 to 26 feet above zero.

#### FARRANDSVILLE, PENNSYLVANIA.

Farrandsville, Pa. Is on the West Branch of the Susquehanna River, 72 miles from its mouth, and 7 miles above Lockhaven, Pa.

The river gage, which belongs to the Pennsylvania Railroad Company, is painted on the bridge pier, and is graduated in feet and half feet.

Graduation extends from zero to 29 feet above. Highest water was 29.9 feet, on June 1, 1889; lowest, -0.8 foot, on September 5, 1895. Danger line is at 19 feet.

#### FAYETTEVILLE, NORTH CAROLINA.

Fayetteville, N. C. Established November 1, 1890. Is on the Cape Fear River, 112 miles from its mouth. The width of the river at average low water is 150 feet. The drainage area above the station is 4,493 square miles.

The river gage, which belongs to the Weather Bureau, is in two sections. The first section (-5 to 25 feet) is a plank fastened vertically to the east pier of the county bridge, and graduated with brass figures and copper tacks; the second section (25 to 55 feet) is painted upon the same pier.

Top of rail in front of Atlantic Coast Line depot is approximately 60 feet above zero of the gage, and 170 feet above mean sea level.

Graduation extends from 5 feet below to 55 feet above zero. Highest water was 58.5 feet, on May 24, 1901; lowest, 0.2 foot, on October 8 and 9, 1897. Danger line is at 38 feet.

#### FLORENCE, ALABAMA.

Florence, Ala. Established November 1, 1890. Is on the Tennessee River, 255 miles from its mouth and 30 miles above Riverton, Ala. The width of the river at average low water is 2,000 feet. The drainage area above the station is 30,000 square miles.

The river gage, which belongs to the United States Engineer Corps, is a new one, installed in February, 1902. It is attached to face of stone draw pier of the Southern Railway bridge over the Tennessee River at Florence, and is made of steel plates three-eighths inch in thickness by 7½ inches in width. Graduations are painted on the gage.

B. M. L. (Merrill, 1871), southeast corner of top of first small pier north of Southern Railway bridge, is 30.2 feet above zero of the gage and 428 feet above mean sea level.

B. M. A. (Ewens, 1894), cross cut on top of northeast corner of upstream end of first abutment pier from Florence side of the Memphis and Charleston Railroad bridge, is 34.7 feet above zero of the gage, and 432.5 feet above mean sea level.

Graduation extends from 2 feet below to 33.5 feet above zero. Highest water was 32.5 feet, on March 19, 1897; lowest, -0.9 foot, on October 28-November 3, 1904. Danger line is at 16 feet.

#### FOLSOM CITY, CALIFORNIA.

Folsom City, Cal. Established January 30, 1893. Is on the American River, 24 miles from its mouth and 25 miles above Sacramento, Cal. The drainage area above the station is 1,645 square miles.



The river gage, which belongs to the Weather Bureau, is in two sections. The first (0 to 10 feet), is inclined, and is bolted to the second section (10 to 42 feet), which is vertical and fastened to the old railroad pier on the side of the river opposite the city. It is painted white, with black graduations.

Top of rail in front of Southern Pacific Railroad depot is 80 feet above zero of the gage, and 180 feet above mean sea level.

Graduation extends from zero to 42 feet above. Highest water was 42 feet, in January, 1861; lowest, 0.2 foot, date unknown. Danger line is at 35 feet.

#### FORT BENTON, MONTANA.

Fort Benton, Mont. Established July 1, 1902. Is on the Missouri River, 2,285 miles from its mouth, and 333 miles above Wolfpoint, Mont. The width of the river at average low water is 468 feet. The drainage area above the station is 112,200 square miles.

The river gage is located on the wagon bridge over the Missouri River, about 250 feet from northwest bank and 550 feet from the other; it is on the southeast side, about 40 feet from the third pier from the northwest bank, and is the standard wire-cable gage of the Missouri River Commission, by which it was erected. During September, 1904, a sash chain was substituted for the wire cable.

Bench mark, top of stone water table on southeast corner of T. C. Power & Bro.'s store at Fort Benton, is 17.3 feet above zero of the gage, and 2,633.9 feet above mean sea level.

Graduation extends from 2 feet below to 13 feet above zero. Highest water of record was 11 feet, on June 14, 1892; lowest, -0.2 foot, on January 14 and 17, 1901. Danger line is at 12 feet.

#### FORT DODGE, IOWA.

Fort Dodge, Iowa. Established December 16, 1904. Is on the Des Moines River, 288 miles from its mouth, and 83 miles above Des Moines, Iowa. The width of the river at average low water is 360 feet. The drainage area above the station is 5,201 square miles.

The river gage, which belongs to the Weather Bureau, is located on the south end of the middle stone pier of the Third street, or "Swedetown," highway bridge. It is made of 2 by 12 inch cypress timber, and is painted white, with graduations of copper tacks and black-painted figures.

B. M., top of stone cap of pier to which gage is attached, is 21.9 feet above zero of the gage, and 1,006.2 feet above mean sea level. Zero of gage corresponds to low-water mark.

Graduation extends from 1.8 to 20 feet above zero. Highest water was 17.7 feet, in the spring of 1879; lowest, 0.0, date unknown. Floods do not endanger the city.

#### FORT GIBSON, INDIAN TERRITORY.

Fort Gibson, Ind. T. Established September 1, 1904. Is on the Neosho River, 3 miles from its mouth, and 36 miles above Webbers Falls, Ind. T., on the Arkansas River. The width of the river at average low water is 456 feet. The drainage area above the station is 11,745 square miles.

The river gage, which belongs to the United States Geological Survey, is located on the first pier from the east end of the St. Louis, Iron Mountain and Southern Railway bridge over the Neosho or Grand River, 1 mile west of Fort Gibson. It is made of 2 by 6 inch pine timber, and is painted white, with black graduations.

Brass bolt in top of coping stone of shore pier from east end of St. Louis, Iron Mountain and Southern Railway bridge over the Neosho River is 31 feet above zero of the gage, and 556 feet above mean sea level.

Graduation extends from zero to 27 feet above. Highest water was 33 feet, date unknown; lowest, 8.8 feet, date unknown. Danger line is at 22 feet.

#### FORT HUNTER, NEW YORK.

Fort Hunter, N. Y. Established February 21, 1903. Is on the Schoharie River, at its mouth, and 42 miles above the mouth of the Mohawk River. The width of the river at average low water is 495 feet. The drainage area above the station is 947 square miles.

The river gage, which belongs to the Weather Bureau, is located on the north wing of the east abutment of the West Shore Railroad bridge over Schoharie River, about one-quarter of a mile west of the railroad station. It is made of  $1\frac{1}{4}$  by 6 inch pine timber, and is painted white, with black graduations.

Graduation extends from zero to 12 feet above. Danger line is at 12 feet.

#### FORT SMITH, ARKANSAS.

Fort Smith, Ark. River observations began April 13, 1879. Is on the Arkansas River, 403 miles from its mouth, and 147 miles above Dardanelle, Ark. The width of the river from bank to bank is 2,270 feet; width of channel at average low water, 600 feet. The drainage area above the station is 140,342 square miles.

A new river gage was installed by the Weather Bureau on October 1, 1903. It is located on the second pier from the south end of the Missouri Pacific Railway bridge. The pier is 200 feet from the shore pier and 50 feet from the shore line, with 2 feet of water on the gage. The gage is painted on the dressed cement surface of the pier, about the middle of its shore face, and consists of black graduations on a white surface 12 inches in width.

United States Coast Survey bench mark, brass bolt in west wall of United States jail, is 67.1 feet above zero of the gage, and 445.9 feet above mean sea level. Top of boundary monument between Arkansas and Indian Territory, which stands between the St. Louis and San Francisco and Missouri Pacific Railway tracks, is 61.4 feet above zero of the gage and 440.2 feet above mean sea level. Top of pier on which gage is painted corresponds to the 39-foot mark.

Graduation extends from zero to 39 feet above. Highest water was 35 feet, on May 7, 1898; lowest, -1 foot, on October 28-November 3, 1893. Danger line is at 22 feet.

#### FRANKFORT, KENTUCKY.

Frankfort, Ky. Established October 1, 1898. Is on the Kentucky River, 65 miles from its mouth. The width of the river at average low water is 400 feet. The drainage area above the station is 5,140 square miles.

The river gage, which belongs to the U. S. Engineer Corps, is located at the canal lock, 1 mile below the city, and is attached to the side of the canal wall.

Top of upper miter sill of Lock No. 4 is zero of gage, and is 464.8 feet above mean sea level.

Highest water was 44 feet, in February, 1878; lowest, 0.4 foot, date unknown. Danger line is at 31 feet.

#### FRANKLIN JUNCTION, NEW HAMPSHIRE.

Franklin Junction, N. H. Established November 1, 1902. Is on the Merrimac River, 110 miles from its mouth and 16 miles above Concord, N. H. It is 1 mile below the point of junction of the Pemigewasset and Winnepesaukee rivers, which together form the Merrimac. The width of the river at average low water is 220 feet. The drainage area above the station is 1,460 square miles.

The river gage, which belongs to the Weather Bureau, is painted on the east end of the south face of the middle pier of bridge No. 152 of the Boston and Maine Railroad over the Merrimac River. It consists of black graduations on a white surface, 12 inches in width.

B. M., No. 1, marked point on lower chord of bridge, near United States Geological Survey gage, is 47.1 feet above zero of that gage. B. M., No. 2, top of north rail at west portal of same bridge, is 46.5 feet above zero of the United States Geological Survey gage. B. M., No. 3, spike in telegraph pole, nearest west end of same bridge, is 46.4 feet above zero of the United States Geological Survey gage. Zero of the gage corresponds with bottom of river. A 6-inch spike driven into pier upon which gage is painted, leaving 1 inch exposed, is exactly opposite the 15-foot mark. Top of rail on bridge over gage is said to be 306 feet above mean sea level.

Graduation extends from 6 to 34 feet above zero. The 34-foot mark is 8 feet below the top of the pier.

#### FREMONT, OHIO.

Fremont, Ohio. Established November 16, 1904. Is on the Sandusky River, 22 miles from its mouth. The width of the river at average low water is 300 feet. The drainage area above the station is 1,351 square miles.

The river gage, which belongs to Mr. E. Stanley Thomas, is attached to a telegraph pole, standing on the downstream side of the State street highway bridge, and opposite the abutment nearest the west end of the bridge. It is made of wood and is painted white, with graduations of brass figures, copper tacks, and black-painted checks.

City datum, stone bottom of river opposite Crogan street, corresponds with zero of the gage, and is 575 feet above mean sea level.

Graduation extends from zero to 20 feet above. Highest water was 16.5 feet, in the spring of 1904; lowest, about 1.5 feet, date unknown. Danger line is at 10 feet.

#### FREEPORT, PENNSYLVANIA.

Freeport, Pa. Established April 16, 1873. Is on the Allegheny River, 29 miles above its mouth at Pittsburg, Pa. The width of the river at average low water is 750 feet. The drainage area above the station is 9,220 square miles.

The river gage, which belongs to the Weather Bureau, is located on the pier of the county bridge, and is in two sections. The first (—1 to 2 feet) is a plank spiked to the cribbing of the pier, and is painted white with black graduations; the second (2 to 35 feet) consists of black graduations painted on a 12-inch white ground on the dressed surface of the pier.

Top of track, on Pennsylvania Railroad bridge, is 31 feet above zero of the gage, and 772 feet above mean sea level.

Graduation extends from 1 foot below to 35 feet above zero. Highest water was 32.7 feet, on February 18, 1891; lowest, —0.7 foot, on September 28, 1881, and September 10, 1886. Danger line is at 20 feet.

#### FULTON, ARKANSAS.

Fulton, Ark. Established in 1885. Is on the Red River, 515 miles from its mouth and 74 miles above Springbank, Ark. The width of the river at average low water is 750 feet. The drainage area above the station is 46,900 square miles.

A new river gage was installed by the Weather Bureau on September 20, 1904. It is in two sections. The first section (—2 to 3.2 feet) is fastened to the cofferdam around an old pier opposite the town of Fulton. The second section (3.2 to 40 feet) is bolted to the downstream end of the second stone pier from the Fulton side of the river of the St. Louis, Iron Mountain and Southern

Railway bridge. Both sections are made of 2 by 12 inch pine timber, painted white, with graduations burned into the wood and painted black.

B. M. 2 (Red River Survey) is copper bolt in square stone under ground and iron pipe on top, at northwest corner of Orleans and Washington streets, one block north of depot, in southeast corner of property owned by Captain McWhorter. Elevation of top of iron cap above zero of gage, 35 feet; above mean sea level, 259.5 feet. Copper bolt is 4.1 feet below iron cap. B. M. A. (Ewens, 1896), square cut on top of downstream end of first pier from Fulton side of St. Louis, Iron Mountain and Southern Railway bridge, is 40.6 feet above zero of gage and 265.1 feet above mean sea level.

B. M. T. 1901 is cross painted inside of circle cut in top of stone pier of bridge, at end of draw span farthest from Fulton, on upstream end. Elevation above zero of gage, 40.7 feet; above mean sea level, 265.2 feet.

Graduation extends from zero to 35 feet above. Highest water was 35.8 feet, on July 17, 1876; lowest, 0.1 foot, on September 20-25, and October 12-23, 1896. Danger line is at 28 feet.

#### GADSDEN, ALABAMA.

Gadsden, Ala. Established November 1, 1890. Is on the Coosa River, 144 miles from its mouth and 28 miles above Lock No. 4, Ala. The width of the river at average low water is 400 feet. The drainage area above the station is 5,680 square miles.

The river gage, which belongs to the Weather Bureau, is in two sections. The lower one is secured to the lower side of the rock pier of the Louisville and Nashville Railroad bridge, about 25 feet from shore, and the upper one is attached to a large oak on the west bank. The gage is made of wood, painted white, with black graduations.

Bench mark of the Southern Railway, on large oak tree in the city park, is 70.3 feet above zero of gage and 544 feet above mean sea level.

Graduation extends from 2 feet below to 35 feet above zero. Highest water was 36.7 feet on April 6, 1886; lowest, -1.2 feet on October 20-November 1, 1904. Danger line is at 22 feet.

#### GALLAND, IOWA.

Galland (Nashville), Iowa. Is on the Mississippi River, 1,472 miles from its mouth and 9 miles above Keokuk, Iowa. The drainage area above the station is 111,530 square miles.

The river gage belongs to the United States Engineer Corps. It is a duplicate of the Keokuk gage and is cut in the stone masonry of the pier just above the upper gate of the guard lock of the Des Moines Rapids Canal, on the west side of the pier, about 90 feet from shore. Graduations are cut in the stone and are painted black on a white ground. Zero of gage is low-water mark of 1864.

U. S. P. B. M. No. 2, M. R. C., top of brass bolt leaded vertically in top of coping of west wall near southwest tower of guard lock, is 11 feet above zero of the gage and 507.7 feet above mean sea level.

Graduation extends from zero to 13 feet above. Highest water was 12 feet on May 16, 1888; lowest, -2.1 feet on December 5 and 6, 1898. Danger line is at 8 feet.

#### GAYLORDSVILLE, CONNECTICUT.

Gaylordsville, Conn. Established November 1, 1902. Is on the Housatonic River, 44 miles from its mouth. The width of the river at average low water is 190 feet. The drainage area above the station is 1,020 square miles.

The river gage, which belongs to the United States Geological Survey, is of the standard chain and weight pattern of that Bureau and is located on the south side of the covered wooden bridge over the Housatonic River at Gaylordsville.

Graduation extends from zero to 16 feet above, but can be extended indefinitely. Highest water was 21.2 feet in 1854. On March 1, 1902, the highest stage was 14.3 feet. Lowest water of record was 2.8 feet on November 7, 1900. Danger line is at 15 feet.

#### GLASGOW, MISSOURI.

Glasgow, Mo. Established February 1, 1903. Is on the Missouri River, 231 miles from its mouth and 32 miles above Boonville, Mo. The width of the river at average low water is 1,080 feet. The drainage area above the station is 504,586 square miles.

The river gage was erected by the Missouri River Commission, and is the standard wire-cable gage of that body. It is located in the center of the main channel span of the Chicago and Alton Railway bridge over the Missouri River. Scale is painted on one of the guard rails of the bridge.

P. B. M., 159= $\frac{1}{3}$ , on west side of second pier from east abutment of Chicago and Alton Railway bridge, opposite center of pier, and 2 feet from its face, being copper bolt in benchmark stone, is 28 feet above zero of the gage and 618 feet above mean sea level. Bench mark on first high double pier from right bank of Chicago and Alton Railway bridge, is 74.1 feet above zero of the gage and 664.1 feet above mean sea level.

Graduation extends from 3 feet below to 25 feet above zero. Highest water of record was 26.9 feet on June 23, 1883; lowest, -1 foot on December 15 and 16, 1904. Danger line is at 18 feet.

#### GLENDIVE, MONTANA.

Glendive, Mont. Established July 1, 1902. Is on the Yellowstone River, 98 miles from its mouth. The width of the river at average low water is 800 feet. The drainage area above the station is 66,212 square miles.

The river gage, which belongs to the Weather Bureau, is a wire-cable gage of the Missouri River Commission pattern, and is located on the iron highway bridge over the Yellowstone River, about the middle of the first span, at the southeast end of the bridge, and on the southwest side of the roadway. The scale is extended along the guard rail of the bridge, the graduations being cut into the timber.

Top of rail in front of Northern Pacific Railroad depot is 37 feet above zero of the gage and 2,069 feet above mean sea level. Top of cap on south end of east pier of bridge on which gage is located is 35 feet above zero of the gage and 2,067 feet above mean sea level. Bottom chord of bridge at gage location is 41.2 feet above zero of the gage and 2,073.2 feet above mean sea level.

Graduation extends from zero to 46 feet above. Highest water of record was 13.4 feet on April 8, 1899; lowest, -0.2 foot on November 29 and 30, 1899. Danger line is at 17 feet.

#### GLENS FALLS, NEW YORK.

Glens Falls, N. Y. Established February 21, 1903. Is on the Hudson River, 197 miles from its mouth and 31 miles above Mechanicsville, N. Y. The width of the river at average low water is 530 feet. The drainage area above the station is 2,324 square miles.

The river gage, which belongs to the Weather Bureau, is attached to a pier at the end of the mill dam west of Finch, Pruyn & Co.'s sawmill, and about 15 feet from the bank. The pier is a square structure, made of hewn timbers with its interior filled with stones. The gage is

made of 1½ by 6 inch timber, and is painted white, with black graduations. The zero of the gage was lowered 5.5 feet on February 17, 1904.

Top of dam is 5.5 feet above zero of the gage and 265 feet above mean sea level.

Graduation extends from zero to 12 feet above. There is no danger from flood.

#### GLENVILLE, WEST VIRGINIA.

Glenville, W. Va. Established September 10, 1900. Is on the Little Kanawha River, 77 miles from its mouth and 39 miles above Creston, W. Va. The width of the river at average low water is 140 feet. The drainage area above the station is 415 square miles.

The river gage, which belongs to the Weather Bureau, is attached to the side of the stone pier of the iron bridge over the Little Kanawha River. It is on the north side of the river, and is made of 2 by 10 inch oak timber, painted white, with black graduations.

The joining of two layers of stone of the pier at the 7-foot mark on the gage can be used as a bench mark. Zero of gage is about 696 feet above mean sea level.

Graduation extends from 2 feet below to 30 feet above zero. Highest water since establishment of station was 18.6 feet on February 28, 1903; lowest, -2.9 feet on July 29, 1903. Danger line is at 20 feet.

#### GONZALES, TEXAS.

Gonzales, Tex. Established September 1, 1904. Is on the Guadalupe River, 112 miles from its mouth and 77 miles above Victoria, Tex. The width of the river at average low water is 180 feet. The drainage area above the station is 3,426 square miles.

The river gage, which belongs to the Weather Bureau, is attached to one of the corner posts on the south side of the wheelhouse of the Gonzales Water Power Company. It is made of 2 by 12 inch pine timber, and is painted white, with graduations of brass figures and copper tacks.

Bench mark on brick wall against east side of river, forming portion of wheelhouse to which gage is attached, is 14.4 feet above zero of the gage.

Graduation extends from 1 foot below to 38 feet above zero. Highest water of record was 36.3 feet on April 8, 1900; lowest, 0.5 foot on various dates in October, November, and December, 1904. Danger line is at 22 feet.

#### GRAFTON, ILLINOIS.

Grafton, Ill. Established March 1, 1894. Is on the Mississippi River, 1,306 miles from its mouth and 42 miles above St. Louis. The width of the river at average low water is 2,700 feet. The drainage area above the station is 172,000 square miles.

A new river gage was installed by the Weather Bureau in April, 1902.

It is located about 700 feet east of the Chicago, Peoria and St. Louis Railway depot, and is in two vertical sections. The first section (-2 to 21.6 feet) is attached to the piling by lag-screws; the second (21.6 to 34.4 feet) is attached by iron hooks to the stone wall and boiler house of the Grafton Quarry Company. Both sections are made of 2 by 12 inch oak, painted white, with graduations burned in and painted black.

Zero of gage is low water of 1864. U. S. P. B. M. No. 4, Mississippi River Commission, copper bolt in east end of doorstep of eastern door in Allen's brick building, adjoining Grafton Flouring Mills, is 42.1 feet above zero of the gage and 446 feet above mean sea level.

Graduation extends from 2 feet below to 34.4 feet above zero. Highest water was 37.8 feet in 1858; lowest, -0.3 foot on December 7 and 8, 1895. Danger line is at 23 feet.

The upper section of the gage was set 0.3 foot too high, and all readings above 21.6 feet since April 27, 1902, are consequently 0.3 foot too low. The correction has been applied in this book wherever necessary.

## GRAND LEDGE, MICHIGAN.

Grand Ledge, Mich. Established December 1, 1904. Is on the Grand River, 129 miles from its mouth and 26 miles above Portland, Mich. The width of the river at average low water is 192 feet. The drainage area above the station is 1,169 square miles.

The river gage, which belongs to the Weather Bureau, is painted on the west face of the downstream side of the iron cylinder pier of the Bridge street wooden highway bridge, and consists of white graduations on a 12-inch black ground.

Bench mark, X, on top of west abutment of Bridge street highway bridge, at angle of south wing, is 21.8 feet above zero of the gage and 801.2 feet above mean sea level. Top of rail in front of Pere Marquette Railroad station is 69.1 feet above zero of the gage and 848.5 feet above mean sea level.

Graduation extends from 0.8 foot to 15 feet above zero. Highest water was 14 feet on March 26 and 27, 1904; lowest, unknown. Danger line is at 6 feet.

## GRAND RAPIDS, MICHIGAN.

Grand Rapids, Mich. River observations began December 1, 1904. Is on the Grand River, 38 miles from its mouth. The width of the river at average low water is 260 feet. The drainage area above the station is 4,575 square miles.

The river gage, which belongs to the Weather Bureau, is a chain and weight gage of the United States Geological Survey pattern, and is located on the Pearl street iron highway bridge, being attached to the downstream guard rail 25 feet west of the west middle pier.

Bench mark, X, on bridge floor, opposite east end of gage box, is 25 feet above zero of the gage and 612.9 feet above mean sea level. Zero of gage corresponds to bottom of river.

Graduation extends from zero to 14 feet above, and can be extended to 28 feet. Highest water was 20.4 feet on March 26 and 27, 1904; lowest, unknown. Danger line is at 11 feet.

## GRAND RAPIDS, WISCONSIN.

Grand Rapids, Wis. Established July 1, 1903. Is on the Wisconsin River, 189 miles from its mouth and 62 miles above Kilbourne, Wis. The width of the river at average low water is 530 feet. The drainage area above the station is 4,643 square miles.

The river gage, which belongs to Mr. W. E. Mack, is located on the south side of the ice breaker, just above the center pier of the bridge near the middle of the river; it is 24 feet north of the north side of the bridge, and is spiked to the middle of the downstream face of the guard lock. It is made of 2 by 6 inch pine timber and is painted white, with black graduations.

Top of rail in front of Green Bay and Western Railroad depot is 40.8 feet above zero of the gage and 1,021 feet above mean sea level.

Graduation is in feet and inches and extends from zero to 16 feet above. Highest water of record was 18.8 feet in 1880; lowest, unknown. Danger line is at 14 feet.

## GREENSBORO, PENNSYLVANIA.

Greensboro, Pa. Established July 1, 1888. Is on the Monongahela River, 81 miles from its mouth and 41 miles above Lock No. 4, Pa. The width of the river at average low water is 600 feet. The drainage area above the station is 4,574 square miles.

The river gage, which belongs to the U. S. Engineer Corps, is located on the wharf and is made of timber, reenforced with an iron plate. It is painted white, with black graduations.

Zero of gage is same as that of gage at Lock No. 7, elevation of which is top of upper breast wall, which lies about 12 inches above miter sill. Zero of lower gage, at Lock No. 8, is at same level. Zero stage on gage corresponds to about 7 feet of water in the channel. Zero of gage is 768 feet above mean sea level.

Graduation extends from zero to 23.5 feet above. Highest water was 39 feet on July 10, 1888; lowest, 4.3 feet on October 27, 28, 30, and 31, 1897. Danger line is at 18 feet.

#### GREENVILLE, MISSISSIPPI.

Greenville, Miss. Established October 1, 1892. Is on the Mississippi River, 595 miles from its mouth and 121 miles above Vicksburg, Miss. The width of the river at average low water is 2,586 feet. The drainage area above the station is 1,128,500 square miles.

The river gage, which belongs to the United States Engineer Corps, was reconstructed during the latter part of the year 1903, and now consists of one inclined and four vertical sections, all made of 2 by 6 inch cypress timber. The first (—1.5 to 8 feet) and second (7.5 to 15 feet) are fastened to 10 by 10 inch piling on the revetted bank, just above the foot of Main street; the third section (13.2 to 38.6 feet) is inclined, and is built into the revetted bank at the foot of Main street, about 300 feet from the base of the levee; the fourth section (38 to 44 feet) is attached to a pile about 250 feet southwest of the fifth section (43 to 50 feet), which is attached to a 30-inch maple tree 20 feet from the base of the levee at the foot of Main street. Graduations are cut into the gage, and the left edge of the inclined section is protected by a 2 by 3 inch strip spiked to the supporting structure.

P. B. M. 1 (United States Coast and Geodetic Survey),  $\Delta$ , cut into iron sill of window, in north side, near northwest corner of brick building, in 1893 called the "city prison," on south side of Main street, about 100 feet east of Locust street, now new levee, is 43.2 feet above zero of the gage and 131 feet above mean sea level.

B. M. A., 1892, cut in doorsill to rear or west entrance to First National Bank building on southwest corner of Main and Walnut streets, is 43.5 feet above zero of the gage and 131.3 feet above mean sea level.

B. M. O., 1893, tile and pipe in southwest corner of Blanton burial ground, near intersection of Main and Locust streets, on north side of Main and east of Locust street; copper bolt in top face is 37.1 feet above zero of the gage and 124.9 feet above mean sea level.

Graduation extends from 1.5 feet below to 50 feet above zero. Highest water was 49.1 feet on March 27, 1903; lowest, —2.5 feet on November 10, 1895. Danger line is at 42 feet.

#### GREENWOOD, MISSISSIPPI.

Greenwood, Miss. Established November 1, 1904. Is on the Yazoo River, 175 miles from its mouth and 95 miles above Yazoo City, Miss. The width of the river at average low water is 270 feet. The drainage area above the station is 7,334 square miles.

The river gage, which belongs to the Weather Bureau, is a chain and weight gage of the United States Geological Survey pattern, and is located on the downstream side of the Leflore County highway bridge over the Yazoo River. The gage box is next to the guard rail, and is attached to the wooden floor of the bridge.

P. B. M. 24, iron pipe and cap in west corner of Leflore County court-house yard, corner of Front and Cotton streets; base of cap is 40.7 feet above zero of the gage, and 133.2 feet above mean sea level.

P. B. M. 25, iron pipe and cap in north corner of section-house yard of the Yazoo and Mississippi Valley Railroad Company, 53 feet south of depot; base of cap is 36.8 feet above zero of the gage, and 129.3 feet above mean sea level.



Graduation extends from 5 feet below to 45 feet above zero. Highest water was 41.2 feet in 1882; lowest, unknown. Danger line is at 38 feet.

#### GUNTERSVILLE, ALABAMA.

Guntersville, Ala. Established November 1, 1904. Is on the Tennessee River, 349 miles from its mouth, and 94 miles above Florence, Ala. The width of the river at average low water is 1,650 feet. The drainage area above the station is 23,854 square miles.

The river gage, which belongs to the Weather Bureau, is in four sections. The first section (0.1 foot to 8.1 feet), is attached to the right side of the railroad incline extending into an arm of the Tennessee River about 100 feet in width, known as Henrys Island Slough; it is vertical, and is made of 1½ by 10 inch oak timber; figures for even feet are painted on, and the intermediate graduations burned into the wood. The second section (8 to 31 feet) is inclined, and is built on the south bank of the slough, opposite the first section. It is made of 6 by 8 inch oak timbers, secured to 6 by 8 inch cedar posts, placed 5 or 6 feet apart and driven 6 feet into the ground. On the upper surface of the timbers is an iron strap, one-fourth by 3½ inches, into which the graduations are cut. All the woodwork is painted white. The third section (31 to 33 feet) is a vertical 6 by 8 inch oak post, driven 6 feet into the ground and extending 4.5 feet above the top of the bank at the head of the second section. It is painted white, with graduations burned into the wood. The fourth section (30 to 48 feet) is attached to the railroad trestle and piling at the foot of the hill between Guntersville and the Tennessee River. It is a vertical 2 by 8 inch oak timber, painted white, with figures for even feet in black paint, and intermediate graduations burned into the wood.

B. M. 1, limestone rock in curbing in front of property of Captain Rain, in "old town," on east side of street going toward river, between hill and railroad track, being high-water mark of 1875, and marked "H. W., 1875," is 46.5 feet above zero of the gage, and 575.7 feet above mean sea level. B. M. 2, marked spike head in top of tie of trestle of Nashville, Chattanooga and St. Louis Railway bridge is 41.3 feet above zero of the gage, and 570.5 feet above mean sea level.

Top of rail at south corner of Nashville, Chattanooga and St. Louis Railway depot is 50.8 feet above zero of the gage and 580 feet above mean sea level.

Graduation extends from 0.1 foot below to 48 feet above zero. Highest water was 48 feet in March, 1867; lowest — 0.1 foot from October 28 to November 2, inclusive, 1904. Danger line is at 31 feet.

#### HAMILTON, OHIO.

Hamilton, Ohio. Established November 16, 1904. Is on the Great Miami River, 33 miles from its mouth and 44 miles below Dayton, Ohio. The width of the river at average low water is 450 feet. The drainage area above the station is 3,579 square miles.

The river gage, which is owned jointly by the city of Hamilton and the Weather Bureau, is attached to the retaining wall of the building, just above the east end of the High street bridge. It is a timber gage, graduated with brass figures and copper tacks.

Top of cement coping of Soldiers' Monument, near east end of High street bridge, is 28.6 feet above zero of the gage and 590.1 feet above mean sea level. City datum is 64 feet below zero of the gage and 497.5 feet above mean sea level.

Graduation extends from 1 foot below to 25 feet above zero. Highest water was 21.2 feet on March 24, 1898; lowest, about 0.5 foot, date unknown. Danger line is at 12 feet.

#### HANCOCK, NEW YORK. (EAST BRANCH.)

Hancock, N. Y. (East Branch.) Established August 1, 1904. Is on the East Branch of the Delaware River, 269 miles from its mouth and 65 miles above Port Jervis, N. Y. The width

of the river at average low water is 300 feet. The drainage area above the station is 912 square miles.

The river gage, which belongs to the United States Geological Survey, is the standard chain and weight gage of that Bureau, and is located on the downstream side of the steel highway bridge over the East Branch.

Top of rail in front of Erie Railroad station is 927 feet above mean sea level. Same in front of New York, Ontario and Western Railway station is 891 feet above mean sea level. Top of rail on bridge No. 18, Erie Railroad, immediately adjoining bridge on which gage is located, is 917.6 feet above mean sea level.

Graduation extends from zero to 15 feet above, and can be extended indefinitely. Highest water of record was 20 feet on March 8, 1904; lowest, 2 feet, date unknown. Danger line is at 12 feet.

#### HANCOCK, NEW YORK. (WEST BRANCH.)

Hancock, N. Y. (West Branch.) Established August 1, 1904. Is on the West Branch of the Delaware River, 269 miles from its mouth and 65 miles above Port Jervis, N. Y. The width of the river at average low water is 300 feet. The drainage area above the station is 599 square miles.

The river gage, which belongs to the United States Geological Survey, is the standard chain and weight gage of that Bureau, and is located on the upstream side of the wooden highway suspension bridge over the West Branch.

Graduation extends from zero to 15 feet above, and can be extended indefinitely. Highest water was 15.6 feet on October 10, 1903; lowest, unknown stage, on September 13, 1897. Danger line is at 10 feet.

#### HANNIBAL, MISSOURI.

Hannibal, Mo. River observations began April 1, 1892. Is on the Mississippi River, 1,402 miles from its mouth and 96 miles above Grafton, Ill. The width of the river at average low water is 1,530 feet. The drainage area above the station is 143,700 square miles.

The river gage, which belongs to the Wabash Railroad Company, is located on the southwest corner of the pivot pier of the Wabash Railroad bridge, 415 feet from the Missouri end and about 1½ miles north of the post-office. The gage is cut into the stone surface of the pier, and its zero is set at the low-water mark of 1864.

U. S. P. B. M. No. 16, Mississippi River Commission, is copper bolt leaded horizontally into face of rock at east entrance of tunnel at Missouri end of Wabash Railroad bridge. Bolt is in a rock facing east on south side of tunnel, 7 feet from entrance and 4 feet above road level. It is 39.8 feet above zero of the gage and 489.2 feet above mean sea level.

Bench mark, high-water mark of 1888 (Mackenzie), line cut on pivot pier of same bridge, is 21.7 feet above zero of the gage, and 471.1 feet above mean sea level.

Graduation extends from zero to 22 feet above. Highest water was 22.5 feet on June 8, 1903; lowest, -1.9 feet on December 4, 1893. Danger line is at 13 feet, at which stage Bay Island begins to be submerged. On the Illinois side of the river the Sny levee protects the bottom lands up to a stage of about 23 feet.

#### HARPERS FERRY, WEST VIRGINIA.

Harpers Ferry, W. Va. Established in 1882. Is on the Potomac River, 172 miles from its mouth and 62 miles above Washington, D. C. The width of the river at average low water is 800 feet, and that of the Shenandoah River, 575 feet. The drainage area above the station is 9,363 square miles, of which 3,009 square miles belong to the Shenandoah River watershed.

A new river gage was installed by the Weather Bureau on November 1, 1901. It is a standard Weather Bureau brass gage, and is located on the south face of the west, or West Virginia, abutment of Baltimore and Ohio Railroad bridge, No. 40, over the Potomac River at Harpers Ferry. A supplementary low-water gage is also attached to the dressed surface of the southern or downstream side of the second pier from the West Virginia side, and on the western 12 inches of same. It consists of a 2 by 12 inch oak plank, painted white, with graduations burned in and painted black.

Top of rail on bridge over gage is 41.5 feet above zero of the gage, and 285.6 feet above mean sea level.

Graduation extends from 0.3 foot below to 34.7 feet above zero; on the supplementary gage from 2 feet below to 4.5 feet above zero. Extensions above 34.7 feet are provided for on the bridge structure. Highest water was 36 feet on June 1, 1889; lowest, - 3 feet on various dates in 1901. Danger line is at 18 feet.

Zero of new gage is 2 feet lower than that of the old one in use previous to November 1, 1901, and this amount should be added to all readings previous to November 1, 1901, in order to reduce them to new elevation. Corrections have been made in stages given in preceding paragraph.

#### HARRISBURG, OREGON.

Harrisburg, Oreg. Established April 16, 1904. Is on the Willamette River, 164 miles from its mouth and 46 miles above Albany, Oreg. The width of the river at average low water is 350 feet. The drainage area above the station is 3,006 square miles.

The river gage, which belongs to the Weather Bureau, is located on the right bank of the river at the foot of Moore street and is fastened to the northeast corner of May & Sender's frame warehouse. It is made of 2 by 8 inch fir timber and is painted white, with graduations burned into the wood and painted black.

Bench mark, United States Geological Survey, 125 feet southeast of Southern Pacific Railroad depot, is 307 feet above mean sea level.

Graduation extends from 5 to 30 feet above zero. Highest water of record was 16 feet on January 25, 1903; lowest, -0.5 foot on September 18-21, 1891.

#### HARRISBURG, PENNSYLVANIA.

Harrisburg, Pa. River observations began November 1, 1890. Is on the Susquehanna River, 69 miles from its mouth. The width of the river at average low water is 4,620 feet. The drainage area above the station is 24,030 square miles.

The river gage, which belongs to the municipality of Harrisburg, is in two sections. The first (0 to 22 feet) is a well gage and is connected with the river by a large water main at the city waterworks. There is a 2-inch pipe, 20 feet in length, in the well, and in this pipe is a 30-inch float sealed at both ends. The float is attached to a chain, and at the other end of the chain is a brass counterweight, which travels perpendicularly along a gage scale, painted on an iron column supporting the roof of the structure. The second section (12.5 to 30 feet) is painted on the southeast corner of the waterworks building. Graduations are in black on a white ground.

Zero of gage is low-water mark of 1803. Bench mark on stone step of post-office building is 37 feet above zero of the gage and 337.1 feet above mean sea level. Top of rail in Union station is 16.9 feet above zero of the gage and 317 feet above mean sea level.

Graduation extends from zero to 30 feet above. Highest water was 27.1 feet on June 1, 1889; lowest, -0.04 foot on September 28-30, 1900. Danger line is at 17 feet.

## HARTFORD, CONNECTICUT.

Hartford, Conn. Established November 1, 1902. Is on the Connecticut River, 50 miles from its mouth. The width of the river at average low water is 600 feet. The drainage area above the station is 10,235 square miles.

The river gage, which belongs to the Hartford and New York Transportation Company, is located at the foot of State street and is in two sections. The first (1 to 21 feet) is spiked to a pile at the dock; the second (20 to 30 feet) is fastened to the north side of the warehouse shed, near the entrance to the steamboat office. Both sections are made of 1 by 4 inch pine timber and are painted white, with black graduations.

Zero of gage is at mean sea level.

Graduation extends from 1 to 30 feet above zero. Highest water was 29.8 feet, on May 1, 1854; lowest, -0.1 foot, in 1858. Danger line is at 13 feet.

## HATTIESBURG, MISSISSIPPI.

Hattiesburg, Miss. Established October 1, 1904. Is on Leaf River, 60 miles from its mouth. The width of the river at average low water is 175 feet. The drainage area above the station is 2,233 square miles.

The river gage, which belongs to the Weather Bureau, is located on the New Orleans and Northeastern Railroad bridge over Leaf River, about one-half mile from the center of the town, and is painted on the west cylinder of the north steel pier. It consists of black graduations on a white ground.

Top of rail near north end of New Orleans and Northeastern Railroad bridge is 35 feet above zero of the gage and 149 feet above mean sea level.

Graduation extends from zero to 30 feet above. Highest water occurred on April 21, 1900; lowest, on June 15, 1904. Danger line is at 20 feet.

## HAVRE, MONTANA.

Havre, Mont. River observations began August 10, 1904. Is on the Milk River, 237 miles from its mouth. The width of the river at average low water is 30 feet. The drainage area above the station is 7,708 square miles.

The river gage, which belongs to the United States Geological Survey, is the standard chain and weight gage of that Bureau, and is located on the county highway bridge over Milk River.

Top of upstream edge of iron rim of bridge pier at south end of county highway bridge is 24.9 feet above zero of the gage and 2,486.2 feet above mean sea level. Top of highest bolt securing bedplates to cement on southwest pier of same bridge is 25.2 feet above zero of the gage and 2,486.5 feet above mean sea level. Spike in blazed cottonwood tree 100 feet southwest of southeast abutment of county highway bridge is 16.2 feet above zero of the gage and 2,477.5 feet above mean sea level.

Graduation extends from 2.1 to 10.7 feet above zero and can be extended indefinitely. Highest water was 15 feet, in April, 1899; lowest of record, 2.2 feet, on August 16-20 and September 22-29, 1904. Danger line is at 9 feet.

## HELENA, ARKANSAS.

Helena, Ark. Established in 1884. Is on the Mississippi River, 767 miles from its mouth, and 132 miles above Arkansas City, Ark. The width of the river at average low water is 2,800 feet. The drainage area above the station is 938,300 square miles.

The river gage, which belongs to the United States Engineer Corps, was partially reconstructed in November, 1901. It is made of cypress timber, and is in nine vertical sections. The first (1 to 10 feet), second (9 to 15 feet), third (13.5 to 26 feet), and fourth (26 to 32 feet) are fastened to the guard piling of the transfer incline; the fifth (29.5 to 32 feet), sixth (32 to 35 feet), seventh (35 to 39 feet), and eighth (39 to 44 feet) are fastened to the trestle of the incline near the foot of Rightor street, and about 250 meters above the other sections; the ninth, or high-water section (43 to 53 feet), is nailed to a short-bodied elm tree, 4 feet in diameter, below the foot of Elm street, about 12 meters above the office of the electric light company, and about 6 meters from the base of the levee. It is directly behind the low-water sections.

U. S. P. B. M., Helena, II, center of hole in end of copper bolt, one centimeter in diameter, leaded into south wall of brick building on northwest corner of Cherry and Rightor streets (Tinny building), 7.1 feet west of southeast corner of building, and 3.2 feet above sidewalk, is 50.1 feet above zero of the gage and 191.9 feet above mean sea level. B. M. W. 1901, under surface of extreme east end of sill of lower east window in York street side of building on southeast corner of Cherry and York streets, is 56.5 feet above zero of the gage and 198.3 feet above mean sea level.

Graduation extends from 1 to 53 feet above zero. Highest water was 51.8 feet, on April 4, 1897; lowest, -3 feet, on November 8 and 9, 1895. Danger line is at 42 feet.

#### HEMPSTEAD, TEXAS.

Hempstead, Tex. Established July 1, 1903. Is on the Brazos River, 140 miles from its mouth, and 79 miles above Booth, Tex. The width of the river at average low water is 200 feet. The drainage area above the station is 35,557 square miles.

The river gage, which belongs to the Weather Bureau, is located 75 yards below Stone's pumping plant and is in three sections. The first (-2 to 8 feet) is made of 6 by 6 inch timber, is inclined, and fastened to the bank. The second (8 to 28 feet) and third (28 to 48 feet) are made of 2 by 12 inch timber, are vertical, and spiked to trees in the immediate vicinity of the first section. The entire gage is painted white with black graduations.

Bench mark, nail in cottonwood tree, 50 yards back from river and at corner of convict building, is 40.9 feet above zero of the gage and 161.6 feet above mean sea level.

Graduation extends from 2 feet below to 48 feet above zero. Highest water was 50 feet, in July, 1899; lowest, -2.5 feet, on December 23-25, 1904. Danger line is at 40 feet.

#### HERMANN, MISSOURI.

Hermann, Mo. Established April 24, 1873. Is on the Missouri River, 103 miles from its mouth. The width of the river at average low water is 3,960 feet. The drainage area above the station is 527,500 square miles.

The river gage, which belongs to the Weather Bureau, is located on the right bank of the Missouri River 1,455 feet west of Missouri Pacific Railway depot, and 307 feet west of P. B. M. No. 72. It is made of 4 by 6 inch oak timber attached to oak piles. Top and upstream edges are bound with  $\frac{1}{2}$  by 2 inch wrought iron. Gage is painted white with graduations of brass figures and copper tacks, and is 79 feet in length.

P. B. M. 72 (old B. M. 59), horizontal furrow in copper bolt leaded into natural ledge at point of bluff at upper end of Hermann, 1,148 feet west of depot, 10 feet from center of track, and 1 foot above grade, is 35.4 feet above zero of the gage and 517.4 feet above mean sea level.

Graduation extends from 0.7 to 30.9 feet above zero. Highest water was 35.6 feet, in June, 1844; lowest, 0.0, on December 21 and 22, 1878. Danger line is at 24 feet.

## HERRS ISLAND DAM, PENNSYLVANIA.

Herrs Island Dam, Pa. Is at Twenty-second street, Pittsburg, Pa., on the Allegheny River. The river gage, which belongs to the United States Engineer Corps, is attached to the river wall of the lock at the dam and consists of a 2 by 12 inch wooden strip.

Sill of dam is zero of the gage, and top of the wall is 18 feet above.

Graduation extends from zero to 18 feet above on the lock wall, and is extended farther on the bank back of the lock. Highest water was 33.7 feet, on March 2, 1902; lowest, 1.3 feet, on July 15, 1901. Danger line is at 22 feet.

## HIDALGO, TEXAS.

Hidalgo, Tex. Established January 1, 1901. This station is on the Rio Grande and is maintained as a portion of the Rio Grande flood service with the cooperation of the United States Signal Corps.

## HIGHBRIDGE, KENTUCKY.

Highbridge, Ky. Established March 20, 1901. Is on the Kentucky River, 117 miles from its mouth, and 52 miles above Frankfort, Ky. The drainage area above the station is 4,818 square miles.

The river gage, which belongs to the United States Engineer Corps, is located at the upper end of the river lock wall. It is cut into the lock wall 6 feet from the end of the wall, is 1 foot in width, and is painted white with black graduations. When the water is over the walls, readings are made from the wing walls.

Zero of the gage coincides with top of upper miter sill and is 505.4 feet above mean sea level.

Graduation extends from zero to 17.7 feet above. Highest water since establishment of station was 30 feet, on January 30, 1902; lowest, 8 feet, on December 3-10, 1904. Danger line is at 17 feet, but little or no damage could be done at any stage within reason.

## HINTON, WEST VIRGINIA.

Hinton, W. Va. Established June 4, 1887. Is on the New River, 95 miles above its mouth at Charleston, W. Va. The width of the river at average low water is 600 feet. The drainage area above the station is 5,600 square miles.

The river gage, which belongs to the United States Engineer Corps, is located just below what is known as the lower ferry and is in two sections. The first (0 to 10 feet) is made of 2 by 6 inch poplar timber, and is attached to an oak crib; the second (10 to 20 feet) is a heavy upright 14-inch post on the bank. Both sections are painted white, with black graduations.

Base of rail in front of Chesapeake and Ohio Railway depot is 33.5 feet above zero of the gage and 1,372 feet above mean sea level.

Graduation extends from zero to 20 feet above. Highest water was 23 feet, on September 13, 1878, lowest, 0.5 foot, date unknown. Danger line is at 14 feet.

## HOLLINGSWORTH FERRY, GEORGIA.

Hollingsworth Ferry, Ga., is on the Ocmulgee River, 250 miles from its mouth, and 47 miles above Macon, Ga.

The river gage, which belongs to Mr. N. L. Grayson, is located on the north side of the river, about 200 feet above the jetty. It is a yellow pine board, 1 by 6 inches, nailed to a gum tree, and is painted white, with black graduations. Another gage in the same vicinity is attached to a 4 by 4 inch timber driven into river bottom, about 20 feet from the bank.

B. M. 25, railroad spike driven into a water oak, 4 inches from ground, and about 50 feet from river bank, is 11 feet above zero of the gage and 162.4 feet above mean sea level.

Graduation extends from zero to 12 feet above. Danger line is at 8 feet.

#### HOLYOKE, MASSACHUSETTS.

Holyoke, Mass. Established November 1, 1902. Is on the Connecticut River, 84 miles from its mouth, and 34 miles above Hartford, Conn. The width of the river at average low water is 1,200 feet. The drainage area above the station is 8,660 square miles.

There are two gages, both the property of the Holyoke Water Power Company. The first, a low-water gage, is self-registering, the water actuating a float through an iron pipe that enters the river just above the top of the dam, and at the side of the gatehouse wall; two registers are made by means of a 3-wire electrical circuit, one in the gatehouse, where a lever travels over a circular dial, and the other in the office of the Holyoke Water Power Company, one-half mile distant, where an inked pen traces a record on a circular sheet. The second, or high-water gage, is bolted to the inside face of the stone abutment above the guard gates, and is made of one-half by 5 inch cast-iron, with graduations, including figures cast on the plate.

Zero of the gage corresponds with crest of dam and is 97.9 feet above mean sea level. Top of rail in front of Boston and Maine Railroad depot is 18.9 feet below zero of the gage and 79 feet above mean sea level.

Graduation of low-water gage extends from zero to as far above as may be necessary; that of the high-water gage from zero to 10 feet above. Highest water of record was 12.7 feet, on October 5, 1869; it is said to have been higher in 1854. Lowest water of record was -0.8 foot, on December 12, 1903. Danger line is at 9 feet.

#### HOOSICK FALLS, NEW YORK.

Hoosick Falls, N. Y. Established February 21, 1903. Is on the Hoosick River, 21 miles from its mouth, and 16 miles above Schaghticoke, N. Y. The width of the river at average low water is 290 feet. The drainage area above the station is 480 square miles.

The river gage, which belongs to the Weather Bureau, is located 75 feet above the dam, in center of fore bay, Walter A. Wood Mower and Reaper Company. It is made of 1½ by 6 inch pine timber, painted white, with black graduations, and is spiked to a 10 by 10 inch wooden post.

South window sill of Walter A. Wood Mower and Reaper Company's pattern safe is 16.9 feet above zero of the gage.

Graduation extends from zero to 14 feet above. Danger line is at 8 feet.

#### HUNTINGDON, PENNSYLVANIA.

Huntingdon, Pa. Established November 1, 1890. Is on the Juniata River, 90 miles from its mouth, and 50 miles above Mifflin, Pa. The width of the river at average low water is 300 feet. The drainage area above the station is 1,320 square miles.

The river gage, which belongs to the Pennsylvania Railroad Company, is attached to the first pier from the north side of the county wagon bridge over the Juniata River at the foot of Fourth street and on the downstream side. It is 120 feet from shore, and is made of 2 by 10 inch oak timber, painted white, with black graduations.

Top of rail in front of Pennsylvania Railroad depot is 23.6 feet above zero of the gage and 621 feet above mean sea level. Copper bolt in head of race arch, south end, is 27.6 feet above zero of the gage and 625 feet above mean sea level. A mark is also painted opposite the 9-foot mark on the gage.

Graduation extends from 1 to 25 feet above zero. Highest water was 25 feet, on June 1, 1889; lowest, -0.6 foot, date unknown. Danger line is at 24 feet.

#### HUNTINGTON, WEST VIRGINIA.

Huntington, W. Va. Established December 1, 1899. Is on the Ohio River, 660 miles from its mouth, and 9 miles above Catlettsburg, Ky. The width of the river at average low water is 1,400 feet. The drainage area above the station is 58,600 square miles.

The river gage, which belongs to the Weather Bureau, is located next to and west of the heavy spar stones bordering the east end of the grade at the foot of Tenth street, and is in two sections. The vertical section (51.1 to 61.1 feet) is a 12 by 12 inch oak post, driven 6 feet into the ground, and painted white, with black graduations. The inclined section (0.0 to 51.1 feet) is 371 feet in length, and consists of a freestone walk, 18 by 8 inches, extending from the top of the grade down to low water. It is flush with the levee and securely bedded. Graduations, including figures for feet and half feet, are cut into the stone.

In December, 1904, a warehouse was built over the upper portion of the gage, obliterating that portion above the 50-foot mark. An upright section (44.5 to 64 feet) was then spiked to the northwest corner of the warehouse. It is made of 1½ by 8 inch oak timber, painted white, with black graduations. A similar section was also spiked to the north side of the warehouse.

Bench mark, A, on stone flagging of wharf, Marrietta-Big Miami survey of Ohio River, 1899, is 20.3 feet above zero of the gage and 511.7 feet above mean sea level.

Bench mark, B, cut on foundation wall of Schon, Blake & Stevenson building at foot of Tenth street, was established by the city engineer of Huntington, and is 56.5 feet above zero of the gage and 547.9 feet above mean sea level. Top of rail at Chesapeake and Ohio Railway depot is 75.6 feet above zero of the gage and 567 feet above mean sea level. Zero of the gage refers to bottom of channel at Guyan Shoals, about 3 miles above.

Graduation extends from zero to 64 feet above. Highest water was 64.8 feet on February 9, 1884; lowest, 2 feet, on October 7 and 8, 1900. Danger line is at 50 feet.

#### HURON, SOUTH DAKOTA.

Huron, S. Dak. River observations began July 1, 1902. Is on the James River, 139 miles from its mouth. The width of the river at average low water is 80 feet. The drainage area above the station is 14,090 square miles.

The river gage, which belongs to the Weather Bureau, is in two sections. The first, or low-water section (-1.5 to 16 feet), is attached to the southwest end of the second section of piles from the west, supporting the Chicago and Northwestern Railway bridge over the James River. The second, or high-water section (12.6 to 20.4 feet), is attached to the south side of the northeast iron tube supporting the iron wagon bridge at the foot of Third street. Both sections are made of 2 by 8 inch pine timber, and are painted white, with graduations of brass figures and copper tacks.

Permanent bench mark, top of iron sill, or water table, below north window of south store, and immediately south of entrance to upper floors and offices of Jeffries block, is 57.8 feet above zero of the gage, and 1,287 feet above mean sea level. Top of fourth row of brick above stone foundation of northwest corner of office building of Philip's brickyards is 15.6 feet above zero of the gage, and 1,244.8 feet above mean sea level.

Graduation extends from 1.5 feet below to 20.4 feet above zero. Highest water since river readings began was 5.3 feet, on June 4-6, 1904; lowest, 0.1 foot, on October 21-23, 1902. Danger line is at 9 feet, at which stage water runs over flats and lowlands. The city is safe from flood.



## IOLA, KANSAS.

Iola, Kans. Established September 1, 1904. Is on the Neosho River, 262 miles from its mouth and 78 miles above Oswego, Kans. The width of the river at average low water is 208 feet. The drainage area above the station is 3,643 square miles.

The river gage, which belongs to the Weather Bureau, is located 1 mile west of the city, at the city water and electric power house, and is attached to an elm tree on the left bank of the river. It is made of 2 by 6 inch pine timber, and is painted white, with graduations of brass figures and copper tacks. The gage is attached by ringbolts to an iron pipe, and the whole is fastened to the tree by two pieces of 2 by 4 inch oak timber.

Zero of gage is low-water mark of 1885.

Graduation extends from zero to 19 feet above. Highest water was 16.6 feet, date unknown; lowest, 0.1 foot, on November 2-9, 1904. Danger line is at 10 feet.

## IONIA, MICHIGAN.

Ionia, Mich. Established December 1, 1904. Is on the Grand River, 81 miles from its mouth and 43 miles above Grand Rapids, Mich. The width of the river at average low water is 220 feet. The drainage area above the station is 2,560 square miles.

The river gage, which belongs to the Weather Bureau, is in two sections. The first section, a chain and weight gage of the United States Geological Survey pattern, is located on the Dexter street highway bridge over Grand River, being attached to the outside of the two center upright iron supports outside the upper wooden guard rail; the second section is a high-water gage, and consists of white graduations painted on a black ground on the east face of the northeast corner of the Ionia Wagon Works building.

Bench mark,  $\times$ , on top of hemlock guard rail at center of west side of Dexter street highway bridge, is 33 feet above zero of the gage, and 645.7 feet above mean sea level. Southeast corner of doorstep of Pere Marquette Railroad depot is 30 feet above zero of the gage and 642.7 feet above mean sea level.

Graduation extends from zero to 14 feet above on the chain and weight gage, and can be extended to 25 feet. Graduation on the high-water gage extends from 24.4 to 34.4 feet. Highest water was 27.6 feet, on March 26 and 27, 1904; lowest, unknown. Danger line is at 24 feet.

## IOWA CITY, IOWA.

Iowa City, Iowa. Established August 1, 1904. Is on the Iowa River, 57 miles from its mouth. The width of the river at average low water is 200 feet. The drainage area above the station is 2,809 square miles.

The river gage, which belongs to the United States Geological Survey, is located on the north side of the iron bridge known as the "Iowa avenue bridge," over the Iowa River, and is a standard chain and weight gage.

Bench mark, small round hole, chiseled into surface of rock pier of Iowa avenue bridge, 1 foot from lower chord of bridge, is 30 feet above zero of the gage, and 670.4 feet above mean sea level. City bench mark, on north side of maple tree, at its base, 1 block east and 1 block and 40 feet south of Iowa avenue bridge, is 31.5 feet above zero of the gage, and 671.9 feet above mean sea level.

Graduation extends from zero to 15 feet above, and can be extended indefinitely. Highest water was 14.8 feet, on June 3, 1903; lowest, -1.8 feet, on December 2 and 4, 1904. On account of the high bluffs the city is free from floods.

## IRWIN, PENNSYLVANIA.

Irwin, Pa., is on Brush Run.

The river gage, which belongs to the Irwin Water Company, is located on the abutment of the Pennsylvania Railroad bridge. It consists of a pine plank, and is painted white with graduations cut into the wood and painted black.

Mark, No. "76a," Pennsylvania Railroad Company, is 865.8 feet above mean sea level.

Graduation extends from zero to 16 feet above. Highest water since 1896 was 5.5 feet, on March 1, 1900; lowest, 0.1 foot, at various times. Danger line is at 6 feet.

## JACKSON, KENTUCKY.

Jackson, Ky. Established August 16, 1904. Is on the North Fork of the Kentucky River, 287 miles from its mouth and 33 miles above Beattyville, Ky. The width of the river at average low water is 200 feet. The drainage area above the station is 1,034 square miles.

The river gage, which was installed by the Weather Bureau, is painted on the east tubular iron pier at the north end of the Breathitt County highway bridge, and consists of black graduations on a 12-inch white ground.

Top surface of cap of pier on which gage is painted is 40 feet above zero of the gage, and about 770 feet above mean sea level. Top of rail in front of Lexington and Eastern Railway depot is 46 feet above zero of the gage, and about 776 feet above mean sea level.

Graduation extends from 3 to 40 feet above zero. Highest water of record was 33 feet, date unknown; lowest, unknown. Danger line is at 24 feet.

## JACKSON, MISSISSIPPI.

Jackson, Miss. Established October 1, 1904. Is on the Pearl River, 242 miles from its mouth and 132 miles above Columbia, Miss. The width of the river at average low water is 150 feet. The drainage area above the station is 2,976 square miles.

The river gage, which belongs to the Weather Bureau, is a chain and weight gage of the United States Geological Survey pattern, and is located on the Hinds County highway bridge over Pearl River, 1 mile southeast of the center of the city of Jackson.

Top of upstream end of iron crossbeam, 120 feet from right bank end of bridge on which gage is located, is 39 feet above zero of the gage, and 272 feet above mean sea level.

Graduation extends from zero to 42 feet above. Highest water was 36 feet on March 31, 1902; lowest, 0.3 foot in 1896 (?). Danger line is at 20 feet.

## JEFFERSON, OREGON.

Jefferson, Oreg. Established April 16, 1904. Is on the Santiam River, 9 miles from its mouth and 23 miles above Salem, Oreg., on the Willamette River. The width of the river at average low water is 360 feet. The drainage area above the station is 1,194 square miles.

The river gage, which belongs to the Southern Pacific Railroad Company, is attached to the northwest, or downstream side of the pier supporting the Southern Pacific Railroad bridge over the Santiam River. The pier is made of heavy timber, planked on all sides, and the gage consists of a 1½ by 6 inch fir plank, painted white with black graduations.

Base of rail on Southern Pacific Railroad bridge is 32 feet above zero of the gage.

Graduation extends in feet and inches from zero to 25 feet above. Highest water was 18 feet on January 16, 1894; lowest, -1 foot, date unknown. Danger line is at 10 feet.

## JOHNSONVILLE, TENNESSEE.

Johnsonville, Tenn. Established October 1, 1875. Is on the Tennessee River, 95 miles from its mouth. The width of the river at average low water is 1,320 feet. The drainage area above the station is 36,700 square miles.

The river gage, which belongs to the Nashville, Chattanooga and St. Louis Railway Company, is located on the elevator on the right bank of the river, and is in two sections. The first section (−0.3 to 12 feet) is made of hickory timber, and is painted white with graduations cut into the wood. There is also a low-water extension (−1.5 feet to −0.3 foot), made of 1 by 4 inch poplar timber. The second section (12 to 48 feet) is on the inside post of the elevator, and is graduated by means of copper tacks and wires.

Bench mark, top of coping of west abutment of Nashville, Chattanooga and St. Louis Railway bridge, is 44 feet above zero of the gage, and 367.1 feet above mean sea level. Top of rail on bridge is 46 feet above zero of the gage, and 369.1 feet above mean sea level.

Graduation extends from 1.5 feet below to 48 feet above zero. Highest water was 48 feet in 1882, and on March 24, 1897; lowest, −0.9 foot from October 26 to November 4, inclusive, 1904. Danger line is at 21 feet.

## JOHNSTOWN, PENNSYLVANIA.

Johnstown, Pa. Established in 1884. Is on Stony Creek, near its junction with the Conemaugh River, 42 miles above Saltsburg, Pa., on the Kiskiminetas River, and 64 miles from the mouth of the latter. The width of the river at average low water is 183 feet. The drainage area above the station is 450 square miles. The drainage area of the Conemaugh River above the mouth of Stony Creek is 200 square miles.

The river gage, which belongs to Mr. J. J. Miller, is located on the stonewall at the fording immediately east of Franklin street bridge. It is made of oak and is painted.

Top line of foundation of pier of Pennsylvania Railroad viaduct, which crosses the Conemaugh River below the mouth of Stony Creek, is 31.2 feet above zero of the gage, and 1,179 feet above mean sea level. Copper bolt in west end of north parapet of bridge is 32.2 feet above zero of the gage, and 1,180 feet above mean sea level.

Graduation extends from zero to 22 feet above. Highest water was 21 feet on May 31, 1889; lowest, 0.2 foot on August 21–28, 1893, and on November 16–29, 1904. Danger line is at 7 feet. The stage of 21 feet on May 31, 1889, occurred at 3 p. m., before the breaking of the South Fork dam. After the dam broke the stage of the water varied from 32 to 35 feet.

## KANSAS CITY, MISSOURI.

Kansas City, Mo. River observations began April 21, 1873. Is on the Missouri River, 388 miles from its mouth and 157 miles above Glasgow, Mo. The width of the river at bank-full stage ranges from 1,120 to 2,100 feet. The drainage area above the station is 491,800 square miles, of which 61,440 square miles belong to the Kansas River watershed.

The river gage was erected by the Missouri River Commission, and is the standard wire cable gage of that body. It is located on the east side of the south end of the draw span of the Hannibal and St. Joseph Railroad bridge over the Missouri River, 144 feet from the Missouri shore. The scale is laid on the floor of the bridge along the guard rail, and graduations are burned into the wood. Stages are referred to St. Louis directrix, which is 303.3 feet below zero of the gage, the scale reading from 301.5 to 332 feet. Stages are therefore obtained by subtracting 303.3 from observed gage readings. For readings above 332 feet a temporary extension is provided.

P. B. M. 230, iron cap over copper bolt in stone about 50 feet east of Hannibal and St. Joseph Railroad bridge, is 33.6 feet above zero of the gage, and 750.8 feet above mean sea level. City datum is 5.8 feet above zero of the gage, and 723 feet above mean sea level.

Graduation extends from 1.8 feet below to 28.7 feet above zero. Highest water was 37 feet on June 20, 1844; lowest, -0.1 foot on January 6, 1874. On June 1 and 2, 1903, the stage was 35 feet. Danger line is at 21 feet.

#### KARTHAUS, PENNSYLVANIA.

Karthaus, Pa. Is on the West Branch of the Susquehanna River, 125 miles from its junction with the Susquehanna and 20 miles above Keating, Pa.

The river gage, which belongs to the Pennsylvania Railroad Company, is painted on a pier of the railroad bridge, and is graduated in feet and half feet.

Zero of the gage is 833.9 feet above mean sea level.

Graduation extends from 3 to 19 feet above zero. Highest water was 22 feet on May 30, 1889; lowest, -0.1 foot on August 1-11, 1895. Danger line is at 10 feet.

#### KEATING, PENNSYLVANIA.

Keating, Pa. Is at the mouth of Sinnemahoning Creek, on the West Branch of the Susquehanna River, 105 miles from its junction with the North Branch and 15 miles above Renovo, Pa.

The river gage, which belongs to the Pennsylvania Railroad Company, is painted on a pier of the railroad bridge, and is graduated in feet and half feet. Pier was reconstructed in February, 1903, and gage was not replaced until June, 1903.

Top of rail in front of Pennsylvania Railroad depot is 25.2 feet above zero of the gage, and 714 feet above mean sea level.

Graduation does not extend below the zero point. Highest water was 33 feet, on May 31, 1889; lowest, below zero, on July 20-December 25, 1904. Danger line is at 32 feet.

#### KEOKUK, IOWA.

Keokuk, Iowa. River observations began May 25, 1873. Is on the Mississippi River, 1,463 miles from its mouth and 5 miles above Warsaw, Ill. The width of the river at average low water is 2,200 feet. The drainage area above the station is 111,530 square miles.

The river gage, which belongs to the Engineer Corps, is cut in the face of a stone pier at the lower end of the Des Moines Rapids Canal, about 70 yards from shore. Figures are cut in the rock, with intermediate graduations in black paint.

U. S. P. B. M. No. 1, copper bolt in coping on shore side of lower lock of Des Moines Rapids Canal, is 15.8 feet above zero of the gage and 493.6 feet above mean sea level.

U. S. P. B. M. No. 2, copper bolt leaded horizontally in south face of Iowa shore abutment of railroad bridge at Keokuk, is 0.7 foot above bench of abutment in tenth stone from west end. It is 16.5 feet above zero of gage, and 494.3 feet above mean sea level. City directrix is 5.2 feet above zero of gage and 483 feet above mean sea level. Zero of gage is low-water mark of 1864.

Graduation extends from 1 foot below to 21 feet above zero. Highest water was 21 feet, on June 6, 1851; lowest, 1.1 feet, on December 7, 1903. Danger line is at 15 feet.

#### KILBOURN, WISCONSIN.

Kilbourn, Wis. Established December 1, 1900. Is on the Wisconsin River, 127 miles from its mouth. The width of the river at average low water is 270 feet. The drainage area above the station is 6,982 square miles.

The river gage, which belongs to the Weather Bureau, is located at Bowman's mill, on the left bank of the river about 600 feet below the Chicago, Milwaukee and St. Paul Railway bridge. It is made of 2 by 12 inch Norway pine and is spiked to a vertical pile at the southwest corner of the mill. It is painted white, with graduations burned into the wood and painted black.

Top of rail in front of Chicago, Milwaukee and St. Paul Railway depot is 81 feet above zero of the gage, and 898 feet above mean sea level. Top of rail on bridge referred to is at same elevation. Mark on side of mill where gage is located corresponds to highest known water mark, that of 1880, and also to the 18-foot mark on the gage.

Graduation extends from zero to 19 feet above. Highest water was 18 feet, in 1880; lowest, unknown. Danger line is at 10 feet.

#### KINGSTON, TENNESSEE.

Kingston, Tenn. Established December 1, 1884. Is on the Clinch River at its junction with the Tennessee, and 556 miles from the mouth of the latter. The distance to Rockwood, Tenn., on the Tennessee River is 15 miles. The width of the river at average low water is 620 feet. The drainage area above the station is 16,200 square miles.

The river gage, which belongs to the Weather Bureau, is made of 4 by 8 inch heart pine, and is attached to the south or downstream side of the pier of the Roane County highway bridge, at the east end of the bridge. It is painted white, with graduations of brass figures and copper tacks.

Bench mark on root of sycamore tree, to which old gage was attached, is 4.8 feet above zero of the gage, and 718.7 feet above mean sea level. Mark on large maple tree in W. B. Rose's yard is 30.4 feet above zero of the gage, and 744.3 feet above mean sea level. Iron pin in stone pier of bridge, opposite the 5.5-foot mark of the gage is 719.4 feet above mean sea level.

Graduation extends from 1.5 feet below to 48 feet above zero. Highest water was 42.5 feet, in 1867; lowest, -0.9 foot, on December 5-7, 1894. Danger line is at 25 feet.

#### KINGSTREE, SOUTH CAROLINA.

Kingtree, S. C. Established December 1, 1893. Is on the Black River, 45 miles above its junction with the Pedee River at Georgetown, S. C., near the head of Winyah Bay. The width of the river at average low water is 250 feet. The drainage area above the station is 1,045 square miles.

The river gage, which belongs to the Weather Bureau, is attached to the downstream side of the central wooden pier of the Kingtree free bridge, and is made of 2 by 10 inch hard pine, painted white, with graduations of brass figures and copper tacks.

Top of rail in front of Atlantic Coast Line depot is 40 feet above zero of the gage, and 77 feet above mean sea level.

Graduation extends from zero to 15 feet above. Highest water was 14.5 feet, on September 11, 1893; lowest, -1.2 feet, on May 22 and 23, 1896. Danger line is at 12 feet.

#### KIOMACHE, TEXAS.

Kiomache, Tex. Established November 10, 1904. Is on the Red River, 614 miles from its mouth, and 99 miles above Fulton, Ark. The width of the river at average low water is 450 feet, and at bank-full stage about 1,400 feet. The drainage area above the station is 42,193 square miles.

The river gage, which belongs to the Weather Bureau, is about one-half mile below the mouth of the Kiomache River, on the Indian Territory side of Red River, about 50 feet above the present ferry landing. It is in three sections, -2 to 8, 8 to 23, and 23 to 38 feet, and all are

fastened to piles sunk into the clay bottom of the river bank. The gage is made of 2 by 8-inch pine timber, painted white, with graduations burned into the wood and painted black.

Crotch of tree where ferry cable is fastened is 28 feet above zero of the gage.

Graduation extends from 2 feet below to 38 feet above zero. Danger line is at 27 feet.

#### KNIGHTS LANDING, CALIFORNIA.

Knights Landing, Cal. Established October 1, 1904. Is on the Sacramento River, 100 miles from its mouth, and 36 miles above Sacramento, Cal. The drainage area above the station is 16,793 square miles.

The river gage, which belongs to the Southern Pacific Railroad Company, is attached to the downstream end of the concrete pier on the east end of the draw span of the Southern Pacific Railroad bridge. It is made of 1½ by 8 inch redwood timber, with graduations cut into the wood and painted black.

Bench mark, top of coping of pier to which gage is attached, is 20 feet above zero of the gage, and 43.4 feet above mean sea level. Zero of gage corresponds with California Pacific Railroad datum, and is 23.4 feet above mean sea level.

Graduation extends from zero to 18 feet above.

#### KNOXVILLE, TENNESSEE.

Knoxville, Tenn. River observations began February 1, 1883. Is on the Tennessee River, 635 miles from its mouth, and 45 miles above Loudon, Tenn. The width of the river at average low water is 800 feet. The drainage area above the station is 10,295 square miles, of which 6,438 square miles belong to the French Broad, and 3,857 square miles to the Holston River.

The river gage, which belongs to the Weather Bureau, is in two sections—one inclined, the other vertical. The inclined section (—2 to 12 feet) is located on southwest bank of the river, about 50 feet from the Southern Railway bridge over West Knoxville Bayou, where it empties into the Tennessee River. It is made of 2 by 4 inch pine timber with painted graduations, and is attached to an 8 by 8 inch oak sill, bolted to piles of the same material, and surrounded by crushed rock. The vertical section (12 to 36.5 feet) is a brass gage of the Weather Bureau standard pattern, and is attached to the southwest side of the sixth pier from the south end of the Southern Railway bridge above mentioned, about 50 feet from the bank of the river. Pier is made of 12 by 12 inch timbers.

An automatic gage of the Fulton pattern was also installed on May 28, 1904. It is attached to the west side of the stone pier supporting the north end of the high span of the Southern Railway bridge over the Tennessee River at Knoxville. It is about 125 feet from the north bank of the river at low water, and is attached to the pier by iron braces leaded in.

Cross cut in stone on east corner of base of right (southwest) bank pier of the Maryville bridge over the Tennessee River, is 2.4 feet above zero of the gage, and 807.8 feet above mean sea level. Bronze tablet in northeast corner of Clinch street entrance to custom-house is 128.7 feet above zero of the gage, and 934.1 feet above mean sea level.

Graduation extends from 2 feet below to 36.5 above zero. The limits of action of the automatic gage extend from 2 feet below to 60 feet above zero. Highest water was 39 feet, in March, 1875; lowest, —1.5 feet, on December 1, 1895. Danger line is at 29 feet.

#### KOPPERL, TEXAS.

Kopperl, Tex. Established August 13, 1900. Is on the Brazos River, 345 miles from its mouth, and 60 miles above Waco, Tex. The width of the river at average low water is 254 feet. The drainage area above the station is 20,845 square miles.

The river gage, which belongs to the Weather Bureau, is painted on the south side of the middle pier of the Gulf, Colorado and Santa Fe Railway bridge over the Brazos River at Kopperl.

Top of rail in front of the Gulf, Colorado and Santa Fe Railway depot is 80.5 feet above zero of the gage, and 575 feet above mean sea level.

Graduation extends from 2 feet below to 33 feet above zero. Highest water was 28.4 feet, on June 25, 1902; lowest since establishment of station, -2 feet, on September 4 and 5, 1900, and August 20-September 2, 1902. Danger line is at 21 feet.

#### LA CROSSE, WISCONSIN.

La Crosse, Wis. River observations began June 17, 1873. Is on the Mississippi River, 1,819 miles from its mouth, and 60 miles above Prairie du Chien, Wis. The width of the river at average low water is 975 feet. The drainage area above the station is 61,340 square miles.

The river gage, which belongs to the United States Engineer Corps, is cut in the stone of the east pier of the La Crosse wagon bridge, and the graduations are painted black. Zero of the present gage is 1.2 feet higher than the zero of the old one in use prior to October 1, 1891, and corresponds to the low water of 1863.

U. S. P. B. M. 192, on stone doorsill of United States Government building, is 53.4 feet above zero of the gage, and 679.7 feet above mean sea level.

U. S. P. B. M. 193, in west face of land pier of highway bridge across the Mississippi River, 5 feet from its north end and 3.5 feet above ground, being center of copper bolt leaded horizontally, is 17.7 feet above zero of the gage, and 644 feet above mean sea level.

Graduation extends from zero to 16 feet above. Highest water was 16.3 feet on June 19, 1880; lowest, -1.2 feet, on August 26, 1877. Danger line is at 12 feet.

#### LAMOURE, NORTH DAKOTA.

Lamoure, N. Dak. Established July 1, 1902. Is on the James River, 330 miles from its mouth, and 191 miles above Huron, S. Dak. The width of the river at average low water is 75 feet. The drainage area above the station is 4,214 square miles.

The river gage, which belongs to the Weather Bureau, is attached to a steel pier of the lower wagon bridge on the west side of the river. It is made of hard-wood timber, and extends from the bottom of the river to the top of the pier, and is painted white, with graduations of brass figures and copper tacks.

Top of rail in front of Northern Pacific Railway depot is 11.3 feet above zero of the gage, and 1,307 feet above mean sea level. Top of steel casement to which gage is attached is 14.2 feet above zero of the gage, and 1,309.9 feet above sea level.

Graduation extends from 4 feet below to 20 feet above zero. Highest water of record was 8.2 feet, on August 8, 1904; lowest, -1.9 feet, on October 27-31, 1902. Danger line is at 14 feet.

#### LANSING, MICHIGAN.

Lansing, Mich. Established December 1, 1904. Is on the Grand River, 140 miles from its mouth, and 11 miles above Grand Ledge, Mich. The width of the river at average low water is 180 feet. The drainage area above the station is 780 square miles.

The river gage, which belongs to the United States Geological Survey, is attached to the center crib of the Seymour street iron highway bridge. The crib is made of wood and is filled with field stone. The gage is made of 1½ by 6 inch oak planking, and is painted white, with graduations of brass figures and 2-inch iron staples.

Bench mark, X, at south end of Seymour street highway bridge, on iron foot of guard-rail support, is 20.4 feet above zero of the gage and 830.3 feet above mean sea level. Weather

Bureau bench mark,  $\times$ , on top of granite coping at west end of basement area on south side of U. S. Government building, is 46.6 feet above zero of the gage, and 856.5 feet above mean sea level.

Graduation extends from zero to 10 feet above. Highest water was 19.4 feet, on March 26 and 27, 1904; lowest, unknown. Danger line is at 11 feet.

#### LAREDO, TEXAS.

Laredo, Tex. Established January 1, 1901. This station is on the Rio Grande, and is maintained as a portion of the Rio Grande flood service with the cooperation of the United States Signal Corps.

#### LEADVALE, TENNESSEE.

Leadvale, Tenn. Established March 10, 1902. Is on the French Broad River, 70 miles from its mouth, and 24 miles above Dandridge, Tenn. The width of the river at average low water is 600 feet. The drainage area above the station is 5,462 square miles.

The river gage, which belongs to the Weather Bureau, is bolted to the west face of the first pier from the west end of the Southern Railway bridge over the French Broad River at Leadvale. It is made of 2 by 12 inch oak timber, painted white with graduations burned into the wood and painted black.

Cross, cut on west face of pier to which gage is attached, and 22 feet from top of pier, is 6 feet above zero of the gage.

Graduation extends from 2.5 feet below to 27 feet above zero. Highest water since establishment of station was 14 feet, on April 8, 1903; lowest, -2.2 feet, on October 19, 1904. Danger line is at 15 feet.

#### LECLAIRE, IOWA.

Leclaire, Iowa. Established June 1, 1873. Is on the Mississippi River, 1,609 miles from its mouth, and 16 miles above Davenport, Iowa. The width of the river at average low water is 1,350 feet. The drainage area above the station is 91,700 square miles.

The river gage, which was built by the Leclaire Rapids Pilots' Association in 1865, was taken over by the Weather Bureau in 1872. It is located on the levee at the foot of Dodge street, on the south side of the street, 15 feet east of the tracks of the Iowa and Illinois Railway Company, and consists of a well, 12 feet in depth and  $2\frac{1}{2}$  feet in diameter, with substantial walls, and connected with the river by means of a wooden trough. An inch board, 12 feet in length and painted white with black graduations in feet and inches, is securely attached to the side, and extends to the bottom of the well. As the water in the well does not now readily respond to changes in the river when the latter is below the 5-foot stage, a supplementary low-water gage has been installed on the levee. It consists of a row of five 4 by 4 inch wooden posts, set flush with the ground, and at right angles to the river. The top of the highest post corresponds to a stage of 5 feet and the top of the lowest to 1 foot on the gage. A graduated stick is used to measure from the tops of the posts to the surface of the water.

B. M. 1 (Colonel King), center of circle cut on northeast corner of ringbolt stone, 39.4 feet east of warehouse in Leclaire, is 7.7 feet above zero of the gage and 570.6 feet above mean sea level.

B. M.  $1\frac{1}{4}$ , center of copper bolt leaded horizontally in east face of stone porch, 1 foot above ground, near northeast corner of Louis Schworm's house on southwest corner of Dodge street and alley between Main street and Wisconsin avenue, bolt being 8 inches from northeast corner of porch and 2.6 feet from its top, is 37.8 feet above zero of the gage and 600.7 feet above mean sea level.



Graduation extends from zero to 12 feet above. Highest water was 14.5 feet, on June 25, 1880; lowest, -1.2 feet, on January 4, 1890. Danger line is at 10 feet.

#### LEWISTON, IDAHO.

Lewiston, Idaho. River observations began in 1894. Is on the Snake River, 144 miles from its mouth, and 77 miles above Riparia, Wash. The width of the river at average low water is 855 feet. The drainage area above the station is 92,846 square miles.

A new gage was installed by the Weather Bureau on November 13, 1901, at the northeast corner of the east side of the west main pier of the Lewiston-Clarkston bridge over Snake River. This gage was made of fir, in two sections, and was washed away during the spring floods of 1902. Another gage was installed in November, 1902, and was also in two sections, one inclined and the other vertical. The inclined section (1.5 to 10 feet) is made of 4 by 12 inch pine timber and graduated with brass figures and copper tacks. It is 38.7 feet in length, and is sunk in the river bank flush with the surface. The vertical section (10 to 28 feet) is made of 2 by 10 inch fir, and is painted white with black graduations. It is nailed to a pillar of the northwest corner of the Oregon Railway and Navigation warehouse, and its lower end connects with the top of the inclined section. The warehouse is on the east bank of Snake River, about 1,200 feet south of the Lewiston and Concord iron bridge.

Top of fourth step of Lewiston National Bank building, northeast corner of E and Fourth streets, marked  $\text{B M}_4$ , is 28.2 feet above zero of the gage, and 737.8 feet above mean sea level. Monument established by the Northern Pacific Railway Company at intersection of B and Fourth streets, between the rails of the Spokane and Palouse Railroad, is 34.3 feet above zero of the gage, and 743.9 feet above mean sea level.

Graduation extends from 1.5 to 28 feet above zero. Highest water was 26.6 feet, on June 6, 1894; lowest, 0.0, on January 10, 1882. Danger line is at 24 feet.

#### LIBERTY, TEXAS.

Liberty, Tex. Established July 1, 1903. Is on the Trinity River, 20 miles from its mouth. The width of the river at average low water is 400 feet. The drainage area above the station is 17,300 square miles.

The river gage, which belongs to the Weather Bureau, is attached to the stone pier of the Texas and New Orleans Railroad bridge. It is made of 2 by 12 inch pine timber, and is painted white with black graduations.

Base of rail on Texas and New Orleans Railroad bridge is 36.3 feet above zero of the gage and 34.1 feet above mean sea level.

Graduation extends from zero to 32 feet above. Highest water of record was 23.8 feet, on May 12 and 13, 1904; lowest, 2.8 feet, on December 15, 17, and 18, 1904. Danger line is at 25 feet.

#### LINDSBORG, KANSAS.

Lindsborg, Kans. Established August 1, 1904. Is on the Smoky Hill River, 109 miles from its mouth, and 64 miles above Abilene, Kans. The width of the river at average low water is 50 feet. The drainage area above the station is 7,850 square miles.

The river gage, which belongs to the Weather Bureau, is a chain and weight gage of the United States Geological Survey pattern, and is attached to the guard rail on the west side of the Union Pacific Railroad bridge over the Smoky Hill River.

Top of Union Pacific track at approach to bridge on which gage is located is 32.9 feet above zero of the gage, or the bed of the river.

Graduation extends from zero to 30 feet above. Highest water was 31.5 feet, in May, 1903; lowest, 0.0, date unknown. Danger line is at 20 feet.

#### LITTLE FALLS, NEW YORK.

Little Falls, N. Y. Established February 21, 1903. Is on the Mohawk River, 78 miles from its mouth, and 36 miles above Tribeshill, N. Y. The width of the river at average low water is 602 feet. The drainage area above the station is 1,306 square miles.

The river gage which belongs to the Weather Bureau, is attached to the headgates of the raceway on the north side of the lower dam at Little Falls, about 75 feet from the crest of the dam. It is made of 1 by 12 inch timber, and is painted white with black graduations.

Zero of the gage is level with top of dam. It is 318.9 feet above Greenbush bench mark and 333.6 feet above mean sea level.

Graduation extends from zero to 12 feet above. Danger line is at 6 feet.

#### LITTLE ROCK, ARKANSAS.

Little Rock, Ark. River observations began April 21, 1873. Is on the Arkansas River, 176 miles from its mouth. The width of the river at average low water is 2,400 feet. The drainage area above the station is 148,241 square miles.

The river gage, which belongs to the Weather Bureau, is a standard brass gage, and is attached to the south side of Pier No. 1 of the Little Rock free bridge. Owing to offsets in the base of the pier, the gage is in four sections. Footmarks are painted in white.

Bench mark, free bridge, top of northwest corner of coping stone of bank pier, just north of railroad track, "U. S." and "+" cut in stone, is 35.6 feet above zero of the gage, and 258.3 feet above mean sea level. Bench mark A (United States Coast and Geodetic Survey), is center of cross cut in granite substructure of east face of United States post-office building. It is beneath water table course of masonry and its center is 1.1 feet north and 0.5 foot above upper corner of north line of basement window nearest to Second street. Elevation above zero of the gage, 75.9 feet; above mean sea level, 298.6 feet. Bench mark, curbstone at southwest corner of Main and Markham streets, is 64.9 feet above zero of the gage, and 287.6 feet above mean sea level.

Graduation extends from zero to 29.7 feet above. Highest water was 32.6 feet, in May, 1844; a stage of 34.6 feet is said to have occurred in 1833; lowest water was 0.6 foot, on September 30 and October 12-22, 1879, and on November 20, 1887. Danger line is at 23 feet.

#### LOCKHAVEN, PENNSYLVANIA.

Lockhaven, Pa. Established November 1, 1890. Is on the West Branch of the Susquehanna River, 65 miles from its mouth, and 30 miles above Williamsport, Pa. The width of the river at average low water is 1,125 feet. The drainage area above the station is 3,002 square miles.

The river gage, which belongs to the Weather Bureau, was installed on June 1, 1902. It is painted on the dressed surface of the east end of the south face of the first pier from the Lockhaven side of the county wagon bridge, and consists of black graduations on a white ground. A low-water extension for stages from zero to 3 feet below has also been provided. It consists of a board painted white with black graduations.

Top of rail in front of Philadelphia and Erie Railroad depot is 8.8 feet above zero of the gage and 557.2 feet above mean sea level. A spike driven into the pier exactly opposite the 15-foot-mark on the gage is 563.4 feet above mean sea level.

Graduation extends from 3 feet below to 18 feet above zero. Highest water was 18 feet, on June 1, 1889; lowest, -2.8 feet, on October 28, 1892. Danger line is at 12 feet.

LOCK NO. 4 (LINCOLN), ALABAMA.

Lock No. 4, Ala. Established March 15, 1899. Is on the Coosa River, 116 miles from its mouth, and 110 miles above Wetumpka, Ala. The width of the river at average low water is 702 feet. The drainage area above the station is 6,473 square miles.

The river gage, which belongs to the United States Engineer Corps, is in two sections. It is made of 2 by 8 inch pine timber, with black markings on a white ground. The first section is attached to the lower end of Lock No. 4 cofferdam, the second to a sycamore tree about 100 feet below the first section.

Bench mark, brass point in stone post about 1,000 feet upstream from first section of gage, is 33.2 feet above zero of the gage, and 510.5 feet above mean sea level. These figures are taken from the levels of a railroad survey in 1885, that crossed the Coosa River at Lock No. 1, Ala.

Graduation extends from zero to 20 feet above. Highest water was 20.3 feet, on April 18 and 19, 1900; lowest, -1 foot, on October 27-November 2, 1904. Danger line is at 17 feet.

The station was closed October 31, 1901, but gage readings are still available.

LOCK NO. 4, PENNSYLVANIA.

Lock No. 4, Pa. Established in 1885. Is on the Monongahela River, 40 miles above its mouth, at Pittsburg, Pa. The width of the river at average low water is 750 feet. The drainage area above the station is 5,430 square miles.

The river gage was built by the Monongahela Navigation Company, and is located on the middle wall at the lower end of the large lock, the graduations being cut into the stone.

Bench mark, bottom of lower end of large lock, is 1 foot below zero of the gage and 718 feet above mean sea level.

Highest water was 42 feet on July 11, 1888; lowest, 3.2 feet, on November 21, 1887. Danger line is at 28 feet.

At a zero stage there is 1 foot of water in the channel.

LOGANSPORT, LOUISIANA.

Logansport, La. Established July 1, 1903. Is on the Sabine River, 315 miles from its mouth and 279 miles above Orange, Tex. The width of the river at average low water is 150 feet. The drainage area above the station is 5,100 square miles.

The river gage, which belongs to the Weather Bureau, is located at the Texas end of the toll bridge of the Louisiana and Texas Bridge Company, and is in two sections. The lower section (0 to 7 feet) is made of 4 by 12 inch pine timber, and is bolted to a pile driven into the bed of the river. It is painted white, with graduations burned in and painted black. The upper section (7 to 35 feet) is painted on a steel pier of the bridge.

Bench mark, top of rail on bridge of Houston, East and West Texas Railway, is 52 feet above zero of the gage and 192 feet above mean sea level.

Graduation extends from zero to 35 feet above. Highest water was between 38 and 40 feet in 1884; lowest of record, 0.1 foot from October 30 to November 2, 1904. Danger line is at 25 feet.

LONG LAKE, TEXAS. (P. O., TUCKER, TEXAS.)

Long Lake, Tex. Established September 1, 1904. Is on the Trinity River, 211 miles from its mouth and 99 miles above Riverside, Tex. The width of the river at average low water is 72 feet. The drainage area above the station is 9,880 square miles.

The river gage, which belongs to the Weather Bureau, is a chain and weight gage of the United States Geological Survey pattern, and is located on the International and Great Northern Railroad bridge over the Trinity River. The gage box is attached to the cross-ties and guard rail.

Top of cross-ties on International and Great Northern Railroad bridge is 61.5 feet above zero of the gage and 240.5 feet above mean sea level.

Graduation extends from 2 feet below to 13 feet above zero, and can be extended indefinitely. Highest water of record was 46 feet, in February, 1903; lowest, unknown. Danger line is at 35 feet.

#### LOUDON, TENNESSEE.

Loudon, Tenn. Established December 1, 1884. Is on the Tennessee River, 590 miles from its mouth and 34 miles above Kingston, Tenn. The width of the river at average low water is 1,400 feet. The drainage area above the station is 11,500 square miles.

The river gage, which belongs to the Weather Bureau, is located on the right bank of the river, directly under the Southern Railway bridge, and is in two sections. The lower section (0 to 44 feet) is inclined, and is secured to the rocky soil by iron braces and anchor rods. The upper section (44 to 55 feet) is vertical, and is bolted to the west abutment of the Southern Railway bridge. Both sections are made of 6 by 8 inch yellow pine, and are painted. The inclined section has bolted on its top side a cap of 2 by 8 inch yellow and heart pine, which is painted, and carries the graduations of brass figures and copper tacks.

Bench mark, cross cut in top surface of upper course of stone abutment just over gage, is 75.4 feet above zero of the gage, and 4.6 feet below base of rail on Southern Railway bridge.

Bench mark (United States Coast and Geodetic Survey) about 20° south of west, on west side of court-house, 750 feet south of Southern Railway depot, being circular brass plate, set 1.2 feet above the pavement, is 834 feet above mean sea level.


Graduation extends from zero to 55 feet above. Highest water was 47 feet in March, 1867; lowest, — 1.1 feet on November 2, 1904. Danger line is at 25 feet.

#### LOUISVILLE, KENTUCKY.

Louisville, Ky. River observations began May 18, 1873. Is on the Ohio River, 367 miles from its mouth and 183 miles above Evansville, Ind. The width of the river at average low water is 3,000 feet. The drainage area above the station is 87,200 square miles.

Previous to July 26, 1900, the city river gage on the levee at the foot of Fourth street was used as the official gage. On and after that date the United States Engineer gage at the upper end of the canal at Ninth street was used. The zero of the latter gage is 2.2 feet lower than that of the former. The canal gage is located in east end of Rowans basin, 119 feet west of the west property line of Ninth street, and is attached to the south canal wall, which is a dry limestone wall built on a solid ledge. It is a cement gage set in a channel cut in the wall, and graduations are cut in the cement.

A full description of the city gage will be found in Part VI, Daily River Stages.

Bench mark, , cut with a chisel on old abutment on south side of canal, about Tenth street, near west end of gage recess, is 14.6 feet above zero of the gage and 414.2 feet above mean sea level. Zero of gage corresponds to 35 feet on canal levels. Bench mark, northeast corner of Indiana abutment of Louisville Railroad bridge, is 78.9 feet above zero of the gage and 478.5 feet above mean sea level. Northwest corner of step at entrance to the Pittsburg, Cincinnati, Chicago and St. Louis Railway depot is 54.4 feet above zero of the gage and 454 feet above mean sea level.

Graduation extends from zero to 15 feet above. For stages over 15 feet the city gage is used. Highest water was 46.7 feet on February 15, 1884; lowest, 1.7 feet on November 14-16, 1875. Danger line is at 28 feet.

#### LOWER MUSCLE SHOALS, ALABAMA.

Lower Muscle Shoals, Ala. Is on the Tennessee River, 226 miles from its mouth and 6 miles above Florence, Ala.

The river gage, which belongs to the United States Engineer Corps, is in two sections. The first (0 to 14 feet) is on the wing wall extending south from the southwest abutment of Lock No. 9. It is made of  $\frac{3}{4}$  by 5 $\frac{1}{2}$  inch timber, and the graduations consist of thin strips of wood which are fastened to the gage. The body of the gage is painted white and the graduation strips black. The second section (14 to 19.4 feet) is fastened to the bluff north of the northeast abutment of Lock No. 9. It is made of 1 by 5 $\frac{1}{2}$  inch timber, and is bound on the edges with five-eighths inch half-round iron rods. Graduations are cut into the wood, with Roman figures for even foot-marks.

P. B. M. 19 at Lock No. 9, Muscles Shoals Canal, on river side of lock, at west heelpost, between the "A" straps, 7 inches from iron shoe, being a copper bolt leaded vertically, is 13.8 feet above zero of the gage and 433.3 feet above mean sea level.

Graduation extends from zero to 19.4 feet above. Highest water since 1895 was 17.7 feet on March 19, 1897; lowest, 0.0 on October 21-November 3, 1904.

#### LUXORA, ARKANSAS.

Luxora, Ark. Established August 1, 1904. Is on the Mississippi River, 905 miles from its mouth and 62 miles above Memphis, Tenn. The width of the river at average low water is 3,000 feet. The drainage area above the station is 922,825 square miles.

The river gage, which belongs to the Weather Bureau, is in two sections. The first section (-1 to 22 feet) is an unpainted 2 by 6 inch pine plank, located 300 feet below the warehouse at the boat landing, and is supported on cypress piling. The second section (22 to 40 feet) is similar in construction to the first section, and is located 100 feet below the warehouse, within 3 or 4 feet of the pumping station. Graduations are burned into both sections. The gage is known as the "Amelia gage."

United States stone bench mark,  $\frac{1}{4}$ <sup>3</sup>, on levee, 20 meters above where it turns and runs south-eastward to the river, on land of John Williams, almost in line with fence at upper end of field, is 30.8 feet above zero of the gage and 248.5 feet above mean sea level.

United States stone bench mark,  $\frac{1}{4}$ <sup>3</sup>, near upper end of John Williams's field, 1,000 meters from river, 12 meters west of upper fence, and 65 meters southeast of northeast corner of said field, is 28.1 feet above zero of the gage and 245.8 feet above mean sea level.

Graduation extends from 1 foot below to 40 feet above zero. Highest water was 36.7 feet on March 19, 1903; lowest, -2 feet on December 24, 1904. Danger line is at 33 feet.

#### LYNCHBURG, VIRGINIA.

Lynchburg, Va. River observations began November 1, 1892. Is on the James River, 260 miles from its mouth and 93 miles above Columbia, Va. The width of the river at average low water is 900 feet. The drainage area above the station is 3,700 square miles.

The old river gage was washed away during the flood of March 1, 1902, and a new gage was installed by the Weather Bureau on March 28, 1902, on the site of the old one, on first pier of the Amherst bridge at the foot of Ninth street, on the side facing Lynchburg, about 100 feet from shore. It is made of 2 by 12 inch oak timber, and is painted white, with graduations burned into the wood and painted black.

Bottom of river is 1.1 feet below zero of the gage and 493.6 feet above mean sea level. Bench mark, bolt with head about 1 inch square, driven into pier to which gage is attached, just back of the 28.6 footmark on southwest side of pier, 1 foot below its top, is exactly level with top of rail of Norfolk and Western Railway track at Ninth street crossing. Elevation above zero of the gage, 28.6 feet; above mean sea level, 523.3 feet.

Graduation extends from 0.5 foot below to 32 feet above zero. Highest water was 29 feet on September 30, 1870; lowest, - 0.5 foot on October 10-20, 1904. Danger line is at 18 feet.

#### M'GHEE, TENNESSEE.

McGhee, Tenn. Established September 1, 1904. Is on the Little Tennessee River, 17 miles from its mouth. The width of the river at average low water is 580 feet. The drainage area above the station is 2,226 square miles.

The river gage, which belongs to the Weather Bureau, is a chain and weight gage of the United States Geological Survey pattern, and is attached to the guard rail near the north end of the second span of the Atlanta, Knoxville and Northern Railroad bridge over the Little Tennessee River. An extension scale is also provided.

Bottom of rail on bridge on which gage is located is 38.5 feet above zero of the gage and 802.4 feet above mean sea level. Tops of piers of same bridge are 33 feet above zero of the gage and 796.9 feet above mean sea level. Bench mark, cut in large red-oak tree, near ground, 300 feet south of the Atlanta, Knoxville and Northern Railroad depot, and 200 feet east of the track, is 56.9 feet above zero of the gage and 820.8 feet above mean sea level. Top of rail in front of Atlanta, Knoxville and Northern Railroad depot is 71.1 feet above zero of the gage and 835 feet above mean sea level.

Graduation extends from 1 foot below to 40 feet above zero. Highest water was 39 feet in March, 1867; lowest, unknown. High water stage of 1884 was 38.5 feet. Danger line is at 20 feet.

#### M'MINNVILLE, OREGON.

McMinnville, Oreg. Established April 16, 1904. Is on the Yamhill River, 11 miles from its mouth and 48 miles above Portland, Oreg., on the Willamette River. The width of the river at average low water is 75 feet. The drainage area above the station is 396 square miles.

The river gage, which belongs to the Weather Bureau, is attached to the northwest support, on the McMinnville side of the county highway bridge over the Yamhill River, and is made of 2 by 12 inch fir timber, painted white, with graduations cut into the wood and painted black.

The gage is incorrectly set, and will be relocated as soon as a proper zero level can be obtained. Low-water mark corresponds with low-water mark at the crest of the dam a few miles below McMinnville.

Highest water was 48 feet in February, 1890; lowest, 0.0 on various dates. Danger line is at 35 feet.

#### MACON, GEORGIA.

Macon, Ga. River observations began June 1, 1899. Is on the Ocmulgee River, 203 miles from its mouth and 107 miles above Abbeville, Ga. The width of the river at average low water is 225 feet. The drainage area above the station is 2,425 square miles.

A new river gage was installed by the Weather Bureau in January, 1900. It is located on the west side of the central pier of the Georgia Central Railway bridge, and is secured to the pier by bolts leaded into the stone. It is made of 5 by 10 inch yellow heart pine, and is painted white, with graduations of copper figures and tacks.

B. M. 1 (U. S. Engineer Corps), a niche cut in river side of brick pier of highway bridge, east side, 900 feet above Georgia Central Railway bridge, is 14.6 feet above zero of the gage and 289.6 feet above mean sea level. Aluminum plate (U. S. Geological Survey, 1898) set in stone foundation of United States Government building, in southwest front, is 58.9 feet above zero of the gage and 334 feet above mean sea level.

Graduation extends from 1.4 feet below to 27 feet above zero. Highest water was 24 feet in August, 1887; lowest, -1 foot on June 12 and 13, 1898, and October 5, 1904. Danger line is at 18 feet.

#### MADISON, INDIANA.

Madison, Ind. River observations resumed November 15, 1899. Is on the Ohio River, 413 miles above its mouth and 46 miles above Louisville, Ky. The width of the river at average low water is 1,800 feet. The drainage area above the station is 86,200 square miles.

The river gage, which belongs to the Weather Bureau, is located at the east end of the public landing, foot of Mulberry street. It consists of 6 by 6 inch timbers, fastened to the ground by iron star-anchors, and has a 4-inch iron strip bolted on its face.

Top of rail in front of Pittsburg, Cincinnati, Chicago and St. Louis Railway depot is 50.8 feet above zero of the gage and 451.1 feet above mean sea level. Top of water table at southeast corner of William Tell House is 53.7 feet above zero of the gage and 454 feet above mean sea level.

Graduation extends from 5 to 48.1 feet above zero. Highest water was 61.8 feet on February 15, 1884; lowest, 2.5 feet on October 7, 1904. Danger line is at 46 feet.

#### MAHWAH, NEW JERSEY.

Mahwah, N. J. Established February 10, 1903. Is on the Ramapo River, 14 miles from its mouth. The drainage area above the station is 112 square miles.

The river gage, which belongs to the Weather Bureau, is a chain and weight gage of the United States Geological Survey pattern, and is located on the downstream side of the county highway bridge over the Ramapo River at Mahwah.

Graduation extends from zero to as far above as may be necessary. Danger line is at 6 feet.

#### MANCHESTER, NEW HAMPSHIRE.

Manchester, N. H. Established November 1, 1902. Is on the Merrimac River, 68 miles from its mouth. The width of the river at average low water is 435 feet. The drainage area above the station is 2,863 square miles.

The river gage, which belongs to the Amoskeag Mills Company, is attached to the east heel-post of the dam of the mills company, the post being fastened to the stone wall of the guard locks. It consists of a board painted white, with black graduations. Readings are obtained by subtracting 70 feet from observed heights on gage.

Top of dam, or zero of the gage, is 178 feet above mean sea level.

Highest water of record was 11 feet, on March 2, 1896; lowest since establishment of station, 0.9 foot, on December 2, 1903.

#### MANHATTAN, KANSAS.

Manhattan, Kans. Established August 1, 1904. Is on the Kansas River, 160 miles from its mouth, and 73 miles above Topeka, Kans. The width of the river at average low water is 250 feet. The drainage area above the station is 52,835 square miles, of which 9,490 square miles belong to the Blue River.

The river gage, which belongs to the Weather Bureau, is attached to the east side of the middle pier of the highway bridge over the Blue River, and consists of an oak plank set into a channel cut into the face of the pier. It is painted white, with graduations of brass figures and copper tacks. The water at the gage responds to changes in the Kansas River.

Cross, +, cut on top stone, northeast corner of middle or second pier from west end of bridge on which gage is located, is 24.5 feet above zero of the gage and 958.5 feet above mean sea level.

Graduation extends from zero to 24 feet above. Highest water was 28 feet, on May 29, 1903; lowest, 0.0, date unknown. Danger line is at 18 feet.

#### MANKATO, MINNESOTA.

Mankato, Minn. Established August 1, 1904. Is on the Minnesota River, 127 miles from its mouth. The width of the river at average low water is 300 feet. The drainage area above the station is 14,845 square miles.

The river gage, which belongs to the United States Geological Survey, is attached to a large cottonwood tree standing on the bank of the river, at the north side of Sibley Park, and is made of 1 by 6 inch oak timber painted white, with graduations of brass tacks.

Bench mark, on trunk of tree to which gage is attached, is 15 feet above zero of the gage, and 761.8 feet above mean sea level. City datum, on water table on southeast corner of Main and Front streets, is 26.2 feet above zero of the gage and 773 feet above mean sea level. Zero of gage corresponds to bed of river.

Graduation extends from zero to 21 feet above. Highest water was 19.5 feet, on June 29, 1903; lowest, unknown. Danger line is at 18 feet.

#### MARKED TREE, ARKANSAS.

Marked Tree, Ark. Established August 1, 1904. Is on the St. Francis River, 104 miles from its mouth. The width of the river at average low water is 200 feet at the river gage, and 275 feet at the railroad bridge. The drainage area above the station is 6,131 square miles.

The river gage, which belongs to the Weather Bureau, is located  $4\frac{1}{2}$  miles downstream from Chapman and Dewey's mill, one-half mile northwest from the north end of the Kansas City, Fort Scott, and Memphis Railroad bridge, and on the left bank of the river. It is in two sections. The first section (—3 to 21 feet) is a vertical  $1\frac{1}{2}$  by 12 inch cypress plank, and is attached to one of a cluster of piling, about 15 feet out from the bank. It is painted white with black graduations. The second section (20 to 35 feet) is made of 2 by 6 inch cypress timber, with graduations cut into the wood, and is attached to a telegraph pole, 10 feet from the river bank and 100 feet below the first section.

Base of rail on draw span of Kansas City, Fort Scott and Memphis Railroad bridge is 36.7 feet above zero of the gage and 233.4 feet above mean sea level. Northeast corner of top of pier on north side of same bridge is 32.3 feet above zero of the gage and 229 feet above mean sea level. Nail in top of third pile from bank end of upstream row of piling at gage location is 16 feet above zero of the gage and 212.7 feet above mean sea level.

Graduation extends from 3 feet below to 35 feet above zero. Highest water was 26.2 feet, on April 4, 1897; lowest, 0.0, in 1901. Danger line is at 17 feet.

#### MARSHALL, NORTH CAROLINA. •

Marshall, N. C. Established March 10, 1902. Is on the French Broad River, 125 miles from its mouth, and 55 miles above Leadvale, Tenn.



The river gage, which belongs to the Weather Bureau, was bolted to the west face of the second pier from the north end of the Madison County bridge. It was made of 2 by 12 inch oak timber, painted white, with graduations burned in and painted black.

Graduation extended from zero to 21 feet above. Danger line is at 9 feet.

Station was closed on March 15, 1903.

#### MARYSVILLE, CALIFORNIA.

Marysville, Cal. Established January 30, 1894. Is on the Yuba River, at its junction with the Feather River, 44 miles above Sacramento. The width of the river at average low water is 400 feet. The drainage area above the station is 3,540 square miles.

The river gage, which belongs to the city, is a 1 by 12 inch plank attached to the bridge pier at the foot of D street, on the side of the river near the city. It is painted white, with black graduations in feet, quarter feet, and inches.

Bench mark, on bridge outside levee, is 48.5 feet above zero of gage and 71.8 feet above mean sea level. Zero of gage is set at low water of 1873.

Bench mark, notch in left-hand iron casing (looking south), on second door of W. T. Ellis's building, northwest corner of First and D streets, 3.4 feet from top of casing, is 13 feet above zero of gage and 36.3 feet above mean sea level.

Graduation extends from zero to 21 feet above, with an extension to 23.5 feet on bridge tender's house. Highest water was 20 feet, on February 25 and March 20, 1904; lowest, 0.0, in 1873. Danger line at Marysville is at 20 feet; for the rivers below the city, 16 feet.

#### MATTAWAMKEAG, MAINE.

Mattawamkeag, Me. Established November 1, 1902. Is on the Penobscot River, 87 miles from its mouth, and about 27 miles above Montague, Me. The width of the river at average low water is 490 feet. The drainage area above the station is 3,430 square miles. The Mattawamkeag River, which joins the Penobscot just below the gage, has a drainage area of 1,530 square miles.

The river gage, which belongs to the Weather Bureau, is located on the Canadian Pacific Railway bridge over the Penobscot River, between the second and third piers, and is a chain and weight gage of the United States Geological Survey pattern.

Southeast corner of south capstone of abutment at east end of Canadian Pacific Railway bridge over the Penobscot River is 42.2 feet above zero of the gage and 175.4 feet above mean sea level.

Graduation extends from zero, or the bed of the river, to 30 feet above, and can be indefinitely extended, if necessary. Highest water of record was 18.7 feet, on March 13, 1903; lowest, 8.3 feet, on November 2, 1903.

#### MAUCHCHUNK, PENNSYLVANIA.

Mauchchunk, Pa. Established August 1, 1904. Is on the Lehigh River, 45 miles above its junction with the Delaware River at Easton, Pa., and Phillipsburg, N. J. The width of the river at average low water is 185 feet. The drainage area above the station is 523 square miles.

The river gage, which belongs to the Weather Bureau, is a chain and weight gage of the United States Geological Survey pattern, and is located on the upstream side of the channel span of the steel highway bridge over the Lehigh River.

Top of rail in front of old Lehigh Valley Railroad depot is 544.4 feet above mean sea level.

Graduation extends from zero to 13 feet above, and can be extended indefinitely. Highest water occurred in June, 1862. There was another flood on February 8, 1892, and both were caused by the breaking of dams above. Danger line is at 15 feet.

## MAYSVILLE, KENTUCKY.

Maysville, Ky. Reestablished October 1, 1904, after having been closed since August 31, 1893. Is on the Ohio River, 559 miles from its mouth, and 60 miles above Cincinnati, Ohio. The width of the river at average low water is 1,700 feet. The drainage area above the station is 67,700 square miles.

The river gage, which belongs to the Weather Bureau, is in two sections. The first section (0 to 50.9 feet) is inclined, and is located on the river bank, near the west end of the upper grade, 26 feet east of the foot of Market street. It consists of a course of 12 by 12 inch freestone, thoroughly riprapped on both sides, and sunk flush with the grade of the river bank. The section is 235 feet in length. The second section (50.9 to 59.5 feet) is vertical, and consists of a 10 by 10 inch oak post, attached to the Chesapeake and Ohio Railway viaduct. Graduations are chiseled into the stone and painted on the timber.

Bench mark, 5 by 8 inch marble tablet, bearing inscription, "High water, February 14, 1884," set in wall of house on Front street, 30 feet west of Market street and 5 feet above the pavement, is 65.7 feet above zero of the gage and 512.4 feet above mean sea level. Top of rail in front of Chesapeake and Ohio Railway depot is 61.3 feet above zero of the gage and 508 feet above mean sea level. Same in front of Louisville and Nashville Railroad depot is 64.3 feet above zero of the gage and 511 feet above mean sea level.

Graduation extends from zero to 59.5 feet above. Highest water was 65.7 feet, on February 14, 1884. Danger line is at 50 feet.

## MECHANICSVILLE, NEW YORK.

Mechanicville, N. Y. Established February 21, 1903. Is on the Hudson River, 166 miles from its mouth, and 8 miles above Cohoes, N. Y. The width of the river at average low water is 794 feet. The drainage area above the station is 4,080 square miles.

The river gage, which belongs to the Duncan Company, is a 2 by 2½ inch movable pine pole, graduated to inches with ink and to half inches by marks cut into the wood. Readings are measured from a bench mark on top of a cut-stone wall at the upstream side of the head gates, about midway east and west of the wall.

Bench mark is 13 feet above zero of the gage and 78 feet above mean sea level. Zero of gage corresponds to top of dam.

Graduation extends from zero to 156 inches above. Danger line is at 9 feet.

## MELVILLE, LOUISIANA.

Melville, La. Established August 10, 1896. Is on the Atchafalaya River, 103 miles from its mouth, and 84 miles above Morgan City, La. The width of the river at average low water is 900 feet.

The river gage, which belongs to the United States Engineer Corps and the Texas and Pacific Railway Company, is located 20 feet north of the Texas and Pacific Railway track, at the center of the turning span of the railroad bridge. It is made of 2 by 6 inch cypress, and is attached to the pine piling in the protection dike. Graduations are shown by means of copper tacks.

B. M. A (Ewen, 1889) is cross cut on top surface of iron cylinder pier of Texas and Pacific Railway bridge. Pier is upstream one of first two from right bank, and cross is as near center of top of pier as possible. It is near upstream edge of truss shoe which the pier supports. Elevation above zero of the gage, 40.8 feet; above mean sea level, 40.7 feet.

B. M. B (Ewen, 1889), top of 2-inch iron pipe driven down nearly to surface of ground in woods on downstream side of Texas and Pacific Railway embankment, about 50 feet from base

of same and about 700 feet back, is 28.5 feet above zero of the gage and 28.4 feet above mean sea level. Base of rail on bridge is 44.9 feet above zero of the gage and 44.8 feet above mean sea level.

Graduation extends from zero to 37 feet above. Highest water was 38.7 feet, on April 4 and 5, 1903; lowest, 1 foot, on November 12 and 13, 1894. Danger line is at 31 feet.

#### MEMPHIS, TENNESSEE.

Memphis, Tenn. River observations began May 18, 1873. Is on the Mississippi River, 843 miles from its mouth, and 76 miles above Helena, Ark. The width of the river at average low water is 3,500 feet. The drainage area above the station is 927,600 square miles.

The river gage, which belongs to the United States Engineer Corps, was reconstructed in November, 1901, and again in 1904. It is located on the public levee at the foot of Beale street, and is now in three sections. The first section (— 3 to 4.5 feet) is a prolongation of the second down to low water, and consists of a 6-inch steel strip attached to a 10 by 10 inch timber supported on piles. Graduations are cut into the face of the strip. The second section (4.5 to 42.7 feet) is inclined and is 258 feet in length. It is made of 6-inch I beams embedded in concrete and cement in trenches 1.5 feet in depth and 2.5 feet in width. Graduations are cut into the beams. The third section (41.8 to 46.5 feet) is a vertical 6-inch steel bar attached to the north pier of the railroad trestle near the upper end of the second section. Graduations are cut into the face of the bar.

P. B. M., Memphis (new), head of copper bolt leaded horizontally into water table of United States custom-house, at southwest corner of same, 2 feet north of corner of old portion of building, is 90 feet above zero of the gage and 273.8 feet above mean sea level. Old P. B. M., Memphis, was obliterated by removal of west wall while enlarging building.

B. M. W., 1901, top of second course of masonry of south pier of St. Louis and San Francisco Railroad bridge over Beale street, near northwest corner of pier, and marked by a square over the letters "B. M. W.," is 44.2 feet above zero of the gage and 228 feet above mean sea level.

Graduation extends from 3 feet below to 46.5 feet above zero. Highest water was 40.1 feet, on March 20, 1903; lowest, — 2.7 feet, on November 9, 1895. Danger line is at 33 feet.

#### MERRILL, MISSISSIPPI.

Merrill, Miss. Established October 1, 1904. Is on the Pascagoula River, 78 miles from its mouth. The width of the river at average low water is 400 feet. The drainage area above the station is 6,150 square miles.

The river gage, which belongs to the Weather Bureau, is attached to the south end of the east side of the middle wooden pier of the Mobile, Jackson and Kansas City Railroad bridge over the Pascagoula River, and consists of a 2 by 12 inch board, painted white, with graduations of brass figures and copper tacks.

Base of rail on bridge above gage is 35 feet above zero of the gage and 63 feet above mean sea level. Top of pier to which gage is attached is 21 feet above zero of the gage and 49 feet above mean sea level. Zero of gage is 5 feet below lowest known water and 8 feet above the bed of the river. Graduation extends from zero to 38 feet above. Highest water occurred on April 21 and 22, 1900; lowest was 5 feet on June 15, 1904. Danger line is at 20 feet.

#### MIFFLIN, PENNSYLVANIA.

Mifflin, Pa. Is on the Juniata River, 40 miles from its junction with the Susquehanna, and 53 miles above Harrisburg, Pa. The drainage area above the station is 1,450 square miles.



The river gage, which belongs to the Pennsylvania Railroad Company, is painted on a pier of the county highway bridge, and is graduated to feet and half feet.

Shelf of coal tipple of Pennsylvania Railroad Company, north face of pier, is 36.2 feet above zero of the gage and 445 feet above mean sea level.

Graduation extends from zero to 31 feet above. Highest water was 37.5 feet on June 1, 1889; lowest, 0.6 foot on November 1, 1895. Danger line is at 27 feet.

#### MILLEDGEVILLE, GEORGIA.

Milledgeville, Ga. Established July 1, 1904. Is on the Oconee River, 147 miles from its mouth, and 68 miles above Dublin, Ga. The width of the river at average low water is 300 feet. The drainage area above the station is 2,845 square miles.

The river gage, which belongs to the United States Geological Survey, is a standard chain and weight gage of that Bureau, and is located on the fencing on the downstream side of the four-span iron highway bridge over the Oconee River, in the eastern part of Milledgeville. The pulley is fastened to the top plank 138.3 feet from the initial point, which is the end of the bridge, right bank, downstream side. Length of chain from end of weight to marker is 46 feet. The gage will shortly be replaced by a more substantial one. Top of third crossbeam from pier on east bank, downstream end of bridge, is 39 feet above datum point.

Graduation extends from zero to as far above as may be necessary. Danger line is at 25 feet.

#### MILLPOINT, NEW YORK.

Millpoint, N. Y. Established February 21, 1903. Is on the Schoharie River, 4 miles from its mouth at Fort Hunter, N. Y. The drainage area above the station is 934 square miles.

Station was discontinued on April 30, 1904.

#### MILSTEAD, ALABAMA.

Milstead, Ala. Established May 1, 1902. Is on the Tallapoosa River, 38 miles from its mouth. The width of the river at average low water is 300 feet. The drainage area above the station is 3,137 square miles.

The river gage, which belongs to the United States Geological Survey, is a wire-cable gage, and is located on the bridge of the Tallassee and Montgomery Railway, about one-fourth mile from Milstead. The scaleboard is a 1 by 4 inch pine plank nailed horizontally along the guard rail of the bridge, and is painted white, with black graduations. Initial point of measurement is end of iron bridge, left bank, downstream.

Graduation extends from 3 feet below to 45 feet above zero. Highest water since establishment of station was 44.5 feet, on February 9, 1903; lowest, 0.1 foot on August 4, 5; September 18-22; October 18, 23, and 26, 1902; and November 7 and 8, 1904. Danger line is at 35 feet.

#### MONROE, LOUISIANA.

Monroe, La. Established February 1, 1895. Is on the Ouachita River, 122 miles above its confluence with the Tensas. The distance to New Orleans is 411 miles. The width of the river at average low water is 300 feet. The drainage area above the station is 17,760 square miles.

The river gage, which belongs to the Weather Bureau, is made of 2 by 8 inch cypress, painted, and graduated with copper tacks. It is located on the downstream side of the east pier of the Vicksburg, Shreveport and Pacific Railway bridge.

U. S. P. B. M. 24 (Red River survey), in railway-shop yard, 26.2 feet north of center line of main track and 7.7 feet east of east line of office, copper bolt in square stone under ground, is

40.6 feet above zero of gage and 71.6 feet above mean sea level. Cap of iron pipe covering copper bolt is 4 feet higher.

Graduation extends from zero to 50 feet above. Highest water was 49.1 feet in 1874; lowest, 0.0, in 1881, 1897, 1899, and 1901. Danger line is at 40 feet.

#### MONTAGUE (WEST ENFIELD), MAINE.

Montague, Me. Established November 1, 1902. Is on the Penobscot River, 60 miles from its mouth and 33 miles above Bangor, Me. The width of the river at average low water is 870 feet. The drainage area above the station is 6,890 square miles. The station is at the mouth of the Piscataquis River, the drainage area of which is 1,500 square miles.

The river gage, which belongs to the United States Geological Survey, is the standard wire cable and weight pattern of that Bureau, and is located on the steel highway bridge about 1,000 feet below the mouth of the Piscataquis River.

Top of northwest corner of first course below bridge seat, easterly abutment of steel highway bridge, is 25.8 feet above zero of the gage and 125.3 feet above mean sea level. Copper bolt in outcropping ledge under same bridge near east abutment is 6.7 feet above zero of the gage and 106.2 feet above mean sea level. Marked point on bottom chord of bridge under gage box is 29.5 feet above zero of the gage and 129 feet above mean sea level.

Graduation extends from zero to as far above as may be necessary.

#### MONTEZUMA, GEORGIA.

Montezuma, Ga., established October 1, 1904, is on the Flint River, 152 miles from its mouth, and 62 miles above Albany, Ga. The width of the river at average low water is 185 feet. The drainage area above the station is 2,696 square miles.

The river gage, which belongs to the Weather Bureau, is a chain and weight gage of the United States Geological Survey pattern, and is attached to the top rail on the upstream side, near the center pier of the city bridge over the Flint River, between Montezuma and Oglethorpe, Ga. An extension scale is also provided.

Base of rail, upstream side, on Central of Georgia Railway bridge, is 30.6 feet above zero of the gage and 288 feet above mean sea level. Top of center iron pier, upstream side, of bridge on which gage is located, is 28 feet above zero of the gage and 285.4 feet above mean sea level.

Graduation extends from 1 foot below to 33 feet above zero. Highest water was 26 feet on March 2, 1897; lowest, 1 foot on October 17, 1904. Danger line is at 20 feet.

#### MONTGOMERY, ALABAMA.

Montgomery, Ala. River observations began December 1, 1890. Is on the Alabama River, 265 miles from its mouth, and 53 miles above Selma, Ala. The width of the river at average low water is 690 feet. The drainage area above the station is 13,500 square miles.

A new river gage was installed by the Weather Bureau on June 25, 1901, and is in nine sections. The first (-3 to 10 feet) is attached to the face of the wharf at the foot of Commerce street, 108 feet east of lower end of wharf; the second section (10 to 15 feet) is attached to the upper or east end of the pile protection to the Louisville and Nashville Railroad embankment; sections 3 to 7, inclusive, extending from 15 to 40 feet, 5 feet in each section, are set in the bank of the river bluff in a line running east southeast up the bank from the second section; section 8 (40 to 50 feet) and section 9 (50 to 60.3 feet) are secured to the east side of the west brick retaining wall of the subway leading down to the river from Commerce street. The seven

lower sections are made of 8 by 8 inch heart pine, and the two upper ones of 2 by 8 inch heart pine. All are painted white, with black graduations.

Iron spike driven in fender pile of wharf near top of first section, is 10 feet above zero of the gage and 113.7 feet above mean sea level. Top of second stone step from bottom of north end of west retaining wall of subway is 40.1 feet above zero of the gage and 143.8 feet above mean sea level. Top of rail in Louisville and Nashville Railroad depot is 58.3 feet above zero of the gage and 162 feet above mean sea level. Northeast corner of stone doorsill of north door of Windsor Hotel on Commerce street is 59.7 feet above zero of the gage and 163.4 feet above mean sea level.

Graduation extends from 3 feet below to 60.3 feet above zero. Highest water was 59.7 feet on April 1, 1886; lowest, -1.9 feet on October 23-25, and October 27-November 2, 1904. Danger line is at 35 feet.

#### MOORHEAD, MINNESOTA.

Moorhead, Minn. River observations began May 27, 1901. Is on the Red River of the North, 418 miles from its mouth. The width of the river at average low water is 110 feet. The drainage area above the station is 5,888 square miles.

The river gage, which belongs to the United States Geological Survey, is attached to the wooden ice break just south of the central pier of the highway drawbridge connecting Main street, Moorhead, and Front street, Fargo, N. Dak., and is 90 feet from the east bank of the river. It is a 1 by 8 inch pine board, painted white, with black graduations.

Top of rail in front of Northern Pacific Railway depot is 46 feet above zero of the gage and 906.9 feet above mean sea level.

Graduation extends from 3 to 27 feet above zero. Highest water of record was 40.1 feet, on April 7, 1897; lowest water of record, 6.7 feet, on November 13 and 14, 1902. Danger line is at 26 feet.

#### MORGAN CITY, LOUISIANA.

Morgan City, La. Established December 10, 1904. Is on the Atchafalaya River, 19 miles from its mouth. The width of the river at average low water is 1,975 feet.

The river gage, which belongs to the Weather Bureau, is attached to the second piling below the draw of the Southern Pacific Railroad bridge over the Atchafalaya River. It is made of 2 by 12 inch cypress timber, and is painted white, with graduations of brass figures and copper tacks.

Top of rail in front of Southern Pacific Railroad depot is 17.5 feet above zero of the gage and 14 feet above mean sea level.

Graduation extends from 2 feet below to 12 feet above zero. Danger line is at 8 feet.

#### MOUNT CARMEL, ILLINOIS.

Mount Carmel, Ill. Established June 16, 1884. Is on the Wabash River, 75 miles above its junction with the Ohio. The width of the river at average low water is 970 feet. The drainage area above the station is 26,300 square miles.

The river gage, which formerly belonged to the United States Engineer Corps, was rebuilt by the Weather Bureau in November, 1904. It is attached to the first round pier from the west side of the river of the Louisville, Evansville and St. Louis Consolidated Railroad bridge over the Wabash River, and is nailed to the old gage. It is made of 1 by 6 inch oak timber, and is painted white, with black graduations.

Flat top of surface of pier to which gage is attached is 29.3 feet above zero of the gage and 407 feet above mean sea level. Top of rail in front of Louisville, Evansville and St. Louis

Consolidated Railroad depot is 13.4 feet above zero of the gage and 391.1 feet above mean sea level.

Graduation extends from zero to 32.5 feet above. Highest water was 28.3 feet on August 7, 1875; lowest, -0.2 foot on November 7-23, 1895. Danger line is at 15 feet.

#### MOUNT HOLLY, NORTH CAROLINA.

Mount Holly, N. C. Established August 16, 1904. Is on the Catawba River, 28 miles from its mouth, and 86 miles above Camden, S. C. The width of the river at average low water is 354 feet. The drainage area above the station is 1,576 square miles.

The river gage, which belongs to the Weather Bureau, is located on the west side, near the downstream end, of the first granite pier of the Seaboard Air Line steel bridge over the Catawba River. It is made of 2 by 12 inch oak timber, painted white, with graduations of brass figures and copper tacks. Zero of gage is low-water mark of 1885.

Top of rail on Seaboard Air Line bridge over gage is 45.8 feet above zero of the gage, and 615.8 feet above mean as sea level.

Graduation extends from 1 foot below to 24 feet above zero. Highest water was 23 feet on May 21, 1901; lowest, 0.0 in August, 1885. Danger line is at 15 feet.

#### MOUNT VERNON, INDIANA.

Mount Vernon, Ind. Established October 15, 1904. Previous to that time a voluntary station had been in operation. Is on the Ohio River, 148 miles from its mouth and 101 miles above Paducah, Ky. The width of the river at average low water is 3,300 feet. The drainage area above the station is 129,200 square miles.

The river gage, which belongs to the city of Mount Vernon, is an inclined one and is located on the levee, west of the stone wharf. It consists of 4 by 6 inch oak timbers, laid broadside upward, fastened to 2 by 14 inch oak timbers, also laid broadside upward, and anchored with 4-foot driftbolts. An iron strap, 4 inches in width, is fastened to the gage proper, and graduations are cut into its face.

Bench mark, engraved square stone set on levee at foot of Store street, being high-water mark of February 24, 1884, is 51.7 feet above zero of the gage, and 366.1 feet above mean sea level. Top of rail in front of Louisville and Nashville Railroad station is 93.7 feet above zero of the gage, and 408.1 feet above mean sea level.

Graduation extends from 0.6 to 50 feet above zero. Highest water was 51.7 feet on February 22, 1884; lowest, unknown amount below zero on September 11-28, 1894, and October 3-November 26, 1895. Danger line is at 35 feet.

#### MUSCATINE, IOWA.

Muscatine, Iowa. Established July 1, 1904. Previous to that time it had been a voluntary station. Is on the Mississippi River, 1,562 miles from its mouth, and 99 miles above Keokuk, Iowa. The width of the river at average low water is 2,250 feet. The drainage area above the station is 93,300 square miles.

The river gage, which belongs to the water company, is located in the pump well of the waterworks. It is graduated only for the 16-foot stage, other stages being obtained from a sliding rod, graduated to feet and tenths. Zero of the gage is low-water mark of 1864.

City bench mark, top of southeast corner on north side of railroad track (Muscatine high bridge) is 21.3 feet above zero of the gage, and 551.8 feet above mean sea level.

Highest water was 18.3 feet, on June 28, 1892; lowest, -1.1 feet, on January 7, 1890. Danger line is at 16 feet.

Another gage, belonging to the Muscatine Bridge Company, is located near the downstream end, on channel side, of first pier on west side of steamboat channel of Muscatine high bridge. It is cut into the dressed stonework of the pier, and its zero is 0.7 foot higher than that of the waterworks gage.

#### NAPOLEON, OHIO.

Napoleon, Ohio. Established November 16, 1904. Is on the Maumee River, 44 miles from its mouth. The width of the river at average low water is 600 feet. The drainage area above the station is 4,877 square miles.

The river gage, which belongs to the Weather Bureau, is a standard brass gage of the Weather Bureau pattern and is attached to the lower side of the first stone pier from the north end of the Perry street highway bridge. Figures for even feet are painted on the pier. Bench mark on hydrant, corner Perry and Front streets, is 28.6 feet above zero of the gage and 665.4 feet above mean sea level. Bench mark on stone coping at north end of Perry street bridge is 24.8 feet above zero of the gage, and 661.6 feet above mean sea level.

Graduation extends from 1 foot below to 20 feet above zero. Highest water was 18 feet, date unknown; lowest, 0.6 foot, date unknown. Danger line is at 13 feet.

#### NASHVILLE, TENNESSEE.

Nashville, Tenn. River observations began May 18, 1873. Is on the Cumberland River, 193 miles from its mouth, and 67 miles above Clarksville, Tenn. The width of the river at average low water is 675 feet. The drainage area above the station is 11,600 square miles.

The river gage, which belongs to the United States Engineer Corps, is located at the foot of Broad street, and is in three sections. The first section (—0.2 to 46 feet) is inclined, and consists of timbers buried in the ground, with an iron strap on the top into which the markings are cut; the second section (46 to 53 feet) is located on a small building at the top of the bank, and consists of wood, painted white with black graduations; the third section (52 to 55.3 feet) is on the corner of Temperance Hall, and consists of black markings on a white ground. There is also a supplementary vertical section reading from —1.2 to 2 feet.

Zero of gage is 110.3 feet on city levels. Bench mark, cross cut in upper face of corner stone in southeast corner of Temperance Hall, on Broad street near Front, is 52 feet above zero of the gage, and 366.6 feet above mean sea level. Top of rail in depot of Nashville, Chattanooga and St. Louis Railway is 120.2 feet above zero of the gage, and 434.8 feet above mean sea level.

Graduation extends from 1.2 feet below to 55.3 feet above zero. Highest water was 55.3 feet on January 22, 1882; lowest, —0.4 foot on October 15 and 16, 1878. Danger line is at 40 feet.

#### NATCHEZ, MISSISSIPPI.

Natchez, Miss. Established July 1, 1903. Is on the Mississippi River, 373 miles from its mouth, and 133 miles above Baton Rouge, La. The width of the river at average low water is 2,200 feet. The drainage area above the station is 1,143,431 square miles.

The river gage, which belongs to the United States Engineer Corps, is located "under the hill," and is fastened to the piling of the Bluff City Railway Company's elevator. It is made of wood, with markings burned into the wood, and is in seven sections. Sections 1 (10 to 12.5 feet), 2 (12 to 16.5 feet), and 3 (16 to 21 feet) are fastened to the piling of the incline, just outside of the elevator; section 4 (20.5 to 26 feet) is fastened to the piling of the elevator at its upper and outer corners; section 5 (26 to 42.8 feet) is fastened to the post of the elevator, at the middle of the upper side of the incline opening; sections 6 (41.5 to 50.4 feet) and 7 (44.6 to 53 feet) are fastened to the piling of the incline which runs through the elevator. The section below 10 feet is missing, but will be replaced by the United States Engineer Corps.



## NEW ORLEANS, LOUISIANA.

New Orleans, La. River observations began May 18, 1873. Is on the Mississippi River, 108 miles above the Gulf. The width of the river at average low water is 2,400 feet. The drainage area above the station is 1,238,200 square miles.

The river gage is the property of the city and is situated at the foot of Canal street, among a cluster of piles in the rear of the ferry wharf. It is made of cypress, and is painted white with markings in black.

Bench mark, corner of Common and Delta streets, on iron cornice, 6 inches above sidewalk at E. Conery's store, is 16.5 feet above zero of gage, and 15 feet above mean sea level. Curbstone under third window of custom-house from Decatur street, and on Custom-House street, is 11 feet above zero of gage, and 9.5 feet above mean sea level.

Graduation extends from zero to 19 feet above. Temporary extensions are provided for stages above 19 feet when necessary. Highest water was 20.4 feet on April 6 and 7, 1903; lowest, -0.2 foot on December 27, 1872 (reduced from Carrollton gage). Danger line is at 16 feet.

## NEWPORT, ARKANSAS.

Newport, Ark. Established 1885. Is on the White River, 185 miles from its mouth and 110 miles above Clarendon, Ark. The distance to Arkansas City, Ark., on the Mississippi, is 200 miles. The width of the river at average low water is 375 feet. The drainage area above the station is 20,058 square miles.

A river gage was installed by the Weather Bureau on September 14, 1901. It was attached to the steamboat elevator, a wooden structure, located north of the St. Louis, Iron Mountain and Southern Railway yards and west of the passenger depot, and was destroyed by fire on May 23, 1904. A new gage was installed by the Weather Bureau on December 9, 1904. It is located on the right bank of the river, along the inclined track of the St. Louis, Iron Mountain and Southern Railway, about 100 feet down the river from the railroad pump house, and is attached to piling driven especially for the purpose. It is made of 2 by 12 inch yellow heart pine, painted white, with graduations cut into the wood and painted black. Even feet are shown by black-painted, galvanized iron figures.

B. M. A. (Ewens, 1894), horizontal line cut on second limestone course, 1.9 feet above bottom of sill, on south wall in opening of west window of court-house, with letter A cut above mark, is 33 feet above zero of the gage, and 232.2 feet above mean sea level.

Graduation extends from 4 feet below to 36 feet above zero. Highest water was 33.4 feet on March 14, 1890; lowest, -0.3 foot on October 2-11, 1901. Danger line is at 26 feet.

## NEWPORT, WASHINGTON.

Newport, Wash. Established April 16, 1904. Is on the Pend d'Oreille River, 86 miles from its mouth, and 96 miles above Northport, Wash., on the Columbia River. The width of the river at average low water is 1,320 feet. The drainage area above the station is 23,454 square miles.

The river gage, which belongs to the Weather Bureau, is attached to the middle one of three docks located on the left bank of the river, about 200 feet from the Newport Steam Laundry. The dock is built of timbers set on piling and on a slope from mean high to mean low water. The gage is made of 2 by 12 inch fir in three vertical sections. The first section (-2 to 19 feet) is attached to the upstream side of the dock at the sixth pile from shore; the second section (19 to 33 feet) is attached to the first pile on the upstream side of the dock, about 20 feet from the edge of a bluff; the third section (33 to 46 feet) is attached to a stump on the bluff above the dock,

about 25 feet from the second section. The entire gage is painted white, with black graduations. A low-water section, extending from - 3.2 feet to 1 foot, is also provided.

Bench mark, United States Geological Survey, is 101.3 feet above zero of the gage, and 2,128 feet above mean sea level.

Graduation extends from 2 feet below to 46 feet above zero. Danger line is at 14 feet.

#### NISBET, PENNSYLVANIA.

Nisbet, Pa. Is on the West Branch of the Susquehanna River, 47 miles from its mouth, and 8 miles above Williamsport, Pa.

The river gage, which belongs to the Pennsylvania Railroad Company, is painted on a bridge pier and is graduated in feet and half-feet. Zero of gage is 525.5 feet above mean sea level.

Graduation extends from zero to 26 feet above. Highest water was 33.3 feet, date unknown; lowest, - 4 feet, date unknown. Danger line is at 26 feet.

#### NORTHPORT, WASHINGTON.

Northport, Wash. Established September 6, 1894. Is on the Columbia River, 726 miles from its mouth, and 253 miles above Wenatchee, Wash. The width of the river at average low water is 300 feet. The drainage area above the station is 60,663 square miles.

The river gage, which belongs to the Weather Bureau, is in five sections—one inclined and four vertical. The first section (1.5 to 11.5 feet) is inclined and is located about 150 feet east of the ferry, being attached to a log, or "deadman," 8 feet in length and 1 foot in diameter. It consists of a 2 by 12 inch tamarack plank set on edge, unpainted, and graduated with double-pointed iron tacks. The second section (11.5 to 14.5 feet) is located 150 feet east of the first section, being attached to the lower end of a log. The third and fourth sections (14.5 to 22.5 feet and 21.5 to 32.5 feet) are nearer the bank, being attached to 1 by 8 foot "deadmen" buried in the river bank. The fifth section (31.5 to 54.9 feet) is fastened to a fir tree, 15 feet from the fourth section. The three vertical sections are made of 2 by 12 inch tamarack planks, painted white, with black graduations.

Top of rail in front of Spokane Falls and Northern Railway depot is 56 feet above zero of the gage, and 1,341.7 feet above mean sea level.

Graduation extends from 1.5 to 54.9 feet above zero. Highest water was 53 feet on June 7, 1894; lowest, stage unknown, on December 20, 1893. Danger line is at 40 feet.

#### NORTHVILLE, NEW YORK.

Northville, N. Y. Established February 21, 1903. Is on the Sacondaga River, 30 miles from its junction with the Hudson River. The width of the river at average low water is 300 feet. The drainage area above the station is 636 square miles.

The river gage, which belongs to the Weather Bureau, is located on the downstream end of the pier of the bridge near the depot. It is made of 1½ by 6 inch pine timber painted white with black graduations.

Copper plug, in coping on downstream side of pier to which gage is attached, is 20.7 feet above zero of the gage, and 763.1 feet above mean sea level.

Graduation extends from zero to 16 feet above. Danger line is at 10 feet.

#### OAKDALE, GEORGIA.

Oakdale, Ga. (P. O., Chattahoochee, Ga.) Established June 1, 1899. Is on the Chattahoochee River, 305 miles from its mouth and 66 miles above Westpoint, Ga. It is also 8 miles northwest of Atlanta, Ga. The drainage area above the station is 1,560 square miles.

The river gage, which belongs to the Weather Bureau, was installed in February, 1900, to replace the old wire cable gage of the United States Geological Survey. It is located on the east side of the center pier of the Southern Railway bridge over the Chattahoochee River, one-fourth mile from Chattahoochee post-office, and is made of 4 by 6 inch heart pine. This timber is bolted to the pier, and to it is nailed a separate 1½ by 6 inch heart pine stick on which the graduations are placed. Both pieces are painted white, and graduations are shown by brass figures and copper tacks.

Bench mark, railroad spike in southeast corner of right-bank pier, near the ground, is 12.4 feet above zero of the gage, and 765.9 feet above mean sea level. Base of rail on bridge is 56 feet above zero of the gage, and 809.5 feet above mean sea level.

Graduation extends from 1.5 feet below to 26.5 feet above zero. Highest water since 1895 was 35 feet on December 30, 1901; lowest, -1.2 feet on June 22, 1904. Danger line is at 18 feet.

The station was rendered useless by the building of a dam and was discontinued on November 30, 1904.

#### OAKFIELD, GEORGIA.

Oakfield, Ga. Is on the Flint River, 99 miles from its mouth, and 19 miles above Albany, Ga.

The river gage, which belongs to the Linden Lumber Company, is made of 1½ by 3 inch cypress timber, and is located on the east pier of the Albany and Northern Railway bridge over the Flint River near Oakfield, Ga. Zero of gage is placed at lowest known water. Graduations are grooved into the wood, and even feet are shown by brass figures.

Graduation extends from zero to 29.6 feet above.

Station was discontinued April 18, 1904.

#### OIL CITY, PENNSYLVANIA.

Oil City, Pa. Established June 1, 1873. Is on the Allegheny River at the mouth of Oil Creek, 50 miles above Parker, Pa., and 123 miles from the mouth of the river. The width of the river at average low water is 600 feet. The drainage area above the station is 4,530 square miles. Oil Creek drains an area of about 270 square miles.

The river gage, ownership unknown, is on the south bank of the river, above the mouth of Oil Creek. It is made of oak, is painted, and graduated with copper tacks. Zero of gage is on a level with bed of river on Charles Oven Ripple, the shallowest point between Oil City and Pittsburgh.

Top of rail in front of Lake Shore and Michigan Southern Railway depot is 25 feet above zero of the gage, and 1,005 feet above mean sea level.

Graduation extends from zero to 20 feet above. Highest water was 21 feet on March 17, 1865; lowest -0.8 foot, on September 22, 1881. Danger line is at 13 feet.

#### OLD BOONTON, NEW JERSEY.

Old Boonton, N. J. Established February 10, 1903. Is on the Rockaway River, 6 miles from its mouth. The drainage area of the Rockaway River is 209 square miles, of which 71 square miles are comprised in the watershed of the Whippany River.

The river gage, which belongs to the Weather Bureau, is located on the west end of the south face of the north abutment of the highway bridge over Rockaway River at Old Boonton, N. J. It is a 2 by 12 inch pine plank painted white with black graduations.

Graduation extends from zero to 12 feet above.

Station was discontinued February 15, 1904.

## OMAHA, NEBRASKA.

Omaha, Nebr. River observations began January 1, 1875. Is on the Missouri River, 669 miles from its mouth, and 28 miles above Plattsmouth, Nebr. The width of the river at average low water is 900 feet. The drainage area above the station is 323,100 square miles.

The river gage is of the wire-cable pattern, and belonged to the Missouri River Commission. The graduations are burned into horizontal 1 by 5 inch oak planks fastened to the guard rail on the west span of the Union Pacific Railroad bridge. The marking extends from 541.5 to 569 feet, and readings are obtained by subtracting 545.8 feet from observed values. Zero of gage is low water of 1867.

Bench mark (Omaha City), copper bolt on upper surface of water table in old post-office building, corner of Fifteenth and Dodge streets, is 81.7 feet above zero of gage, and 1,041.3 feet above mean sea level.

U. S. P. B. M. 346, 59 feet south of south cylindrical pier next to river at west end of the Union Pacific Railroad bridge over the Missouri, and 39 feet east of east switch track of the Burlington and Missouri River Railroad, being copper bolt in bench-mark stone, is 13.4 feet above zero of the gage, and 973 feet above mean sea level.

Graduation extends from 4.3 feet below to 23.2 feet above zero. Highest water was 23.8 feet on April 24, 1881; lowest, 1.6 feet on December 3, 1867. Danger line is at 18 feet.

## ORANGE, TEXAS.

Orange, Tex. Established July 1, 1903. Is on the Sabine River, 36 miles from its mouth. The width of the river at average low water is 500 feet. The drainage area above the station is 13,700 square miles.

The river gage, which belongs to the Weather Bureau, is attached to a pile of the Southern Pacific Railroad Company's wharf. It is made of 2 by 12 inch pine timber, with black graduations.

Graduation extends from zero to 12 feet above. Danger line is at 7 feet.

Station was discontinued October 31, 1904.

## OREGON CITY, OREGON.

Oregon City, Oreg. Is on the Willamette River, 25 miles from its mouth, and 13 miles above Portland, Oreg.

There are two river gages, one above and one below the falls, both owned by the Portland General Electric Company. The upper gage is at the head of the guard lock on the right side, and the lower one at the heelpost on the east side of first gate to locks.

Zero of the upper gage is 54.5 feet above mean sea level.

Graduation extends from zero to 17 feet above. Highest water was about 20 feet in 1890.

Zero of the lower gage is 9.2 feet above mean sea level.

Graduation extends from zero to 32 feet above. Highest water was 50.5 feet on February 5, 1890.

## OROVILLE, CALIFORNIA.

Oroville, Cal. Established January 30, 1894. Is on the Feather River, 32 miles above its junction with the Yuba River at Marysville, Cal., and 76 miles above Sacramento, Cal. The width of the river at average low water is 400 feet. The drainage area above the station is 3,100 square miles.

The river gage, which belongs to the Weather Bureau, is made of 2½-inch galvanized iron pipe, and is located at the bridge over Feather River at the end nearest the city.

Curbstone in front of Union Hotel is 23 feet above zero of gage, and 162.8 feet above mean sea level. Top of granite base at foot of right-hand pillar, entrance to Rideout Bank, corner of Myers and Montgomery streets, is 26.8 feet above zero of gage, and 166.6 feet above mean sea level.

Graduation extends from zero to 30 feet above. Highest water was 25 feet in February, 1881; lowest, -2 feet on December 15 and 16, 1886. Danger line is at 25 feet.

#### OSWEGO, KANSAS.

Oswego, Kans. Established September 1, 1904. Is on the Neosho River, 184 miles from its mouth, and 181 miles above Fort Gibson, Ind. T. The width of the river at average low water is 220 feet. The drainage area above the station is 5,106 square miles.

The river gage, which belongs to the Weather Bureau, is a chain and weight gage of the United States Geological Survey pattern, and is attached to the guard rail on the downstream side of the Labette County highway bridge, three-fourths of a mile north of the city, near the municipal waterworks plant.

Graduation extends from zero to as far above as may be necessary. Highest water was 25.2 feet, date unknown; lowest, 0.1 foot, on November 2, 3, 13-16, 1904. Danger line is at 20 feet.

#### OTTUMWA, IOWA.

Ottumwa, Iowa. Established May 23, 1894. Is on the Des Moines River, 94 miles from its mouth, and 111 miles below Des Moines, Iowa. The width of the river at average low water is 600 feet. The drainage area above the station is 13,486 square miles.

A new river gage was installed by the Weather Bureau on April 1, 1901. It consists of black graduations on a white ground painted on the northeast face of the north pier of Market street bridge.

Top of capstone of pier on which gage is painted is 22 feet above zero of the gage, and 651.1 feet above mean sea level. Zero of the gage is also city datum, and is considered as the plane of the lowest known water. Top of rail in front of the Chicago, Milwaukee and St. Paul Railway depot is 18.9 feet above zero of the gage, and 648 feet above mean sea level. Top of rail in front of Chicago, Burlington and Quincy Railway depot is 19.9 feet above zero of the gage, and 649 feet above mean sea level. Top of rail in front of Wabash Railroad depot is 17.9 feet above zero of the gage, and 647 feet above mean sea level.

Graduation extends from 1 to 22 feet above zero. Highest water was 25.5 feet on May 31, 1903; lowest, 0.0, date unknown. Danger line is at 10 feet.

#### PADUCAH, KENTUCKY.

Paducah, Ky. Established May 1, 1873. Is on the Ohio River, 47 miles from its mouth. The width of the river at average low water is 4,200 feet. The drainage area above the station is 203,800 square miles.

The river gage, which belongs to the United States Engineer Corps, was reconstructed in 1902 from 4.5 to 56 feet above zero. High water prevented completion of the work below the 4.5-footmark. The gage consists of one inclined and three vertical sections. The inclined section is located on the levee, on the north side of Broadway from First street, and the vertical ones are attached to Fowler & Crumbaugh's boat store. The inclined section (4.5 to 48 feet) is made of T rails weighing 20 pounds to the foot, and placed inverted in a bed of concrete 18 inches in depth by 24 inches in width, placed on a 9 by 30 inch foundation of gravel. Graduations are

cut into the top surface of the rail. The second section (48 to 54 feet) and the third (48 to 56 feet), are made of 4 by 6 inch oak timber, with one-half by 4 inch iron straps fastened to their tops. Graduations are cut into the straps. The fourth section (53 to 60 feet) is made of 2 by 4 inch cypress timber, and is graduated with tacks. Below the 4.5-footmark the gage consists of 12 by 12 inch oak timber, with a one-half by 4 inch iron strap on top, into which the graduations are cut.

Bench mark, northwest corner of Broad and Kolb streets, is 60.5 feet above zero of the gage, and 340.8 feet above mean sea level. Bench mark, northwest corner of Third and Elizabeth streets, is 56.4 feet above zero of the gage, and 336.7 feet above mean sea level.

Graduation extends from 3 feet below to 60 feet above zero. Highest water was 54.2 feet on February 23, 1884; lowest, - 0.7 foot on October 30–November 4, 1895. Danger line is at 40 feet.

#### PARKER, PENNSYLVANIA.

Parker, Pa. Established January 1, 1885. Is on the Allegheny River, 73 miles from its mouth, and 44 miles above Freeport, Pa. The width of the river at average low water is 500 feet. The drainage area above the station is 6,020 square miles.

The river gage is in two sections. The first (0 to 9 feet) is attached to the east abutment of the bridge. The second (9 to 30 feet) is attached to the first pier. Graduations are painted on the gage.

Top of rail in front of Allegheny Valley Railway depot is 38.6 feet above zero of the gage and 888 feet above mean sea level.

Graduation extends from zero to 30 feet above. Highest water was 28 feet in March, 1865; lowest, -0.9 foot on September 7, 1894. Danger line is at 20 feet.

#### PARKERSBURG, WEST VIRGINIA.

Parkersburg, W. Va. River observations began July 1, 1888. Is on the Ohio River, 785 miles from its mouth, and 82 miles above Point Pleasant, W. Va. The width of the river at average low water is 1,350 feet. The drainage area above the station is 37,200 square miles.

The river gage, which belongs to the Weather Bureau, is attached to the north pier of the Ohio River Railroad bridge over the Little Kanawha River at its junction with the Ohio. It is made of wood, and is painted white, with black graduations for each two-tenths of a foot. An inclined supplementary gage, also belonging to the Weather Bureau, extends along the levee from zero to 10 feet above.

Bench mark on water table in southeast corner of United States Government building is 54.2 feet above zero of the gage and 616.2 feet above mean sea level. Bench mark, "T. P.," cut on second land pier from top of river bank, Baltimore and Ohio Railroad bridge over the Ohio River at Parkersburg, on left side of railroad track, is 37.5 feet above zero of the gage and 599.5 feet above mean sea level.

Graduation extends from zero to 58 feet above. Highest water was 53.9 feet on February 9, 1884; lowest, 0.0 on October 30, 1879. Danger line is at 36 feet.

#### PASCO, WASHINGTON.

Pasco, Wash. Established April 16, 1904. Is on the Columbia River, 310 miles from its mouth, and 40 miles above Umatilla, Oreg. The width of the river at average low water is 1,320 feet. The drainage area above the station is 91,651 square miles.

The river gage, which belongs to the Northern Pacific Railway Company, is attached to the east side of the fourth concrete pier, from the east end of the Northern Pacific Railway bridge over the Columbia River. It is made of 3 by 12 inch fir timber with black graduations.

Graduation extends from zero to 25 feet above. Highest water was 29 feet on May 25, 1894; lowest, stage unknown, in February or March, 1887.

There is also another gage on Snake River, where it joins the Columbia, 4 miles below Pasco. This gage belongs to the Washington and Columbia River Railway Company, and is attached to the draw rest of the railroad bridge. It is made of 2 by 12 inch fir timber, and is painted white, with black graduations. The width of the river at average low water is 600 feet. The drainage area above the station is 108,680 square miles.

Bridge seats of piers, except draw-span pier, of the Washington and Columbia River Railway bridge, are 33.2 feet above zero of the gage and 361.2 feet above mean sea level.

Graduation extends from 2.5 feet below to 29.5 feet above zero. Highest water was 28.2 feet in June, 1894; lowest, 0.0, date unknown.

#### PEORIA, ILLINOIS.

Peoria, Ill. Established February 6, 1884. Is on the Illinois River, 135 miles from its mouth, and 65 miles above Beardstown, Ill. The width of the river at average low water is 1,000 feet. The drainage area above the station is 13,249 square miles.

A new river gage was installed by the Weather Bureau on November 7, 1902. It is located on the site of the old gage, being nailed to a pile in the protecting work of the draw pier of the lower free bridge. It is made of 2 by 12 inch oak timber, painted white, with graduations burned into the wood and painted black.

T. B. M., 253, "U. □ S.," highest point in square cut on top of southwest end stone of top course of retaining wall of northwest abutment of Toledo, Peoria and Western Railway bridge, 10 feet southwest from center of track, 1.4 feet northeast from end of stone, and 0.3 foot back from river face of stone on which bench mark is cut, is 29.9 feet above zero of the gage and 458.7 feet above mean sea level.

Bench mark, top of water table on southeast corner of court-house, is 77.4 feet above zero of the gage and 506.2 feet above mean sea level. Top surface of bottom chord of bridge, directly over center of pivot pier, is 27.7 feet above zero of the gage and 456.5 feet above mean sea level.

Graduation extends from zero to 22 feet above. Highest water was 24.2 feet in the spring of 1844; lowest, 2.6 feet on October 7, 1890. Danger line is at 14 feet for points below. No flood can endanger the city.

#### PHILIPPI, WEST VIRGINIA.

Philippi, W. Va. Established January 1, 1892. Is on the Tygarts Valley River, 33 miles above its confluence with the West Fork of the Monongahela. The distance to Fairmont, W. Va., on the Monongahela, is 36 miles. The width of the river at average low water is 375 feet. The drainage area above the station is 988 square miles.

The river gage, which belongs to the Weather Bureau, is cut in the stone of the bridge pier and has white graduations painted on a black ground.

Bench mark, cross cut in stone at top of gage, is 20 feet above zero of the gage and 1,340 feet above mean sea level.

Graduation extends from zero to 20 feet above. Highest water was 20 feet in July, 1888; lowest, -2.4 feet on September 7, 1895, and September 30-October 8, 1900. Danger line is at 10 feet.

## PHILLIPSBURG, NEW JERSEY.

Phillipsburg, N. J. Established August 1, 1904. Is on the Delaware River, 142 miles from its mouth, and 50 miles above Trenton, N. J. The width of the river at average low water is 650 feet. The drainage area above the station is 6,137 square miles.

The river gage, which belongs to the Weather Bureau, is in two sections. The first or low-water section (—1 to 11 feet) is fastened to the retaining wall of the Morris Canal, and consists of a 2 by 12 inch oak plank, painted white, with graduations burned into the wood and painted black. The second or high-water section (8 to 40 feet) is painted on the second pier of the Lehigh Valley Railroad bridge at Lehigh Junction, and consists of black graduations on a 12-inch white ground.

Bench mark on east face of shore pier of New Jersey Central Railroad bridge at Lehigh Junction, and about 1 foot north of inscription relative thereto, is 20.7 feet above zero of the gage and 197.9 feet above mean sea level.

Graduation extends from 1 foot below to 40 feet above zero. Highest water was 35 feet on October 10, 1903; owing to the constriction of the channel above the Easton and Phillipsburg highway bridge, the stage above the bridge was about 2 feet higher on the same date. Lowest water, unknown. Danger line is at 26 feet.

## PIERRE, SOUTH DAKOTA.

Pierre, S. Dak. River observations began January 1, 1892. Is on the Missouri River, 1,114 miles from its mouth, and 248 miles above Yankton, S. Dak. The width of the river at average low water is 2,625 feet, and at high water 1 mile. The drainage area above the station is 243,600 square miles.

The river gage, which belongs to the United States Engineer Corps, is located on the opposite side of the river at Fort Pierre. It is on a revetted bank 350 feet below the mouth of Bad River, and consists of a horizontal pipe beam with cable and weight, the graduations being cut on an oak plank.

Bench mark, Upper Missouri River Commission, No. 248, is a flat rock, 4 feet under ground, with an iron pipe extending from the top of the stone to the surface of the ground. It is 700 feet back from the river, the same distance above Bad River, and on Gumbo Hill, just back of houses on Deadwood street. Elevation above zero of the gage, 36 feet; above mean sea level, 1,452.7 feet. Bench mark on southeast end of first stone step from sidewalk, at entrance to Bank of Commerce, in the town of Pierre, is 25.8 feet above zero of the gage and 1,442.5 feet above mean sea level.

Graduation extends from about 2 feet below to 15 feet above zero. Highest water was 21 feet in March, 1881; lowest, —4.2 feet on November 18 and 19, 1893. Danger line is at 14 feet.

## PIQUA, OHIO.

Piqua, Ohio. Established November 16, 1904. Is on the Great Miami River, 110 miles from its mouth and 33 miles above Dayton, Ohio. The width of the river at average low water is 300 feet. The drainage area above the station is 1,215 square miles.

The river gage, which belongs to the city of Piqua, is located on the Main street bridge, and is in two sections. The first section (0 to 10 feet) is attached to the southeast corner of the center pier of the bridge. The second section (10 to 18 feet) is attached to the northeast corner of the abutment on the south bank of the river. The entire gage is made of yellow poplar timber, painted white, with graduations of brass figures and copper tacks,



Fire plug at Main and Mound streets, one-half block south of river, is 18.8 feet above zero of the gage and 867.5 feet above sea level.

Graduation extends from zero to 18 feet above. Highest water probably occurred in 1847, but the stage is unknown. In the floods of 1897 and 1898 the stage was about 16 feet. Lowest water was about zero; date unknown. Danger line is at 10 feet.

#### PITTSBURG, PENNSYLVANIA.

Pittsburg, Pa. River observations began May 25, 1873. Is at the confluence of the Allegheny and Monongahela rivers, 966 miles from the mouth of the Ohio, and 91 miles above Wheeling, W. Va. The drainage area above the station is 19,600 square miles. The Davis Island Dam, 6 miles below the city, was put in operation October 7, 1885. When the wickets of the dam are raised to their full height, the stage of water by gage is about 6 feet. All stages of water below this will be influenced by the operation of the dam. The distance to Beaver Dam, below, is 41 miles.

The river gage, situated at the foot of Market street, belongs to the city of Pittsburg. It is made of curbstones set flush with the pavement of the wharf, graduation being cut into the stone in feet and quarter feet. Zero of gage is the wharf log.

Top of rail in old Union Depot is 46 feet above zero of gage, and 743.2 feet above mean sea level. Shelf on southeast corner of Pennsylvania Railroad Company's building on Pennsylvania avenue, is 47.1 feet above zero of the gage, and 744.3 feet above mean sea level.

Graduation extends from zero to 33 feet above. Highest water was 35 feet on February 10, 1832; lowest, -1.3 feet on September 28, 1881. Danger line is at 22 feet.

#### PLATTSMOUTH, NEBRASKA.

Plattsmouth, Nebr. Established in 1873. Is on the Missouri River, 641 miles from its mouth, and 160 miles above St. Joseph, Mo. The width of the river at average low water is 825 feet. The drainage area above the station is 416,000 square miles, of which 90,011 square miles belong to the watershed of the Platte River.

The river gage, which belonged to the Missouri River Commission, is of the wire-cable pattern of that body, and is located on the central span of the Burlington and Missouri River Railroad bridge over the Missouri River. Graduations extending from 525 to 546 are cut into the oak planking and painted black. Stages of water are obtained by subtracting 529 from observed gage readings.

United States bench mark, top of stone foundation of north end of first iron bent, west of right bank pier of Burlington and Missouri River Railroad bridge, on which gage is located, being highest part of stone between grooves at northeast corner of cross, +, is 16.6 feet above zero of the gage, and 958.8 feet above mean sea level.

Graduation extends from 4 feet below to 17 feet above zero. Highest water was 19.2 feet on April 24, 1881; lowest, -2.2 feet on December 6 and 7, 1895. Danger line is at 17 feet.

#### POINT PLEASANT, WEST VIRGINIA.

Point Pleasant, W. Va. Established August 16, 1889. Is on the Ohio River, 703 miles from its mouth, and 43 miles above Huntington, W. Va. The width of the river at average low water is 1,020 feet. The drainage area above the station is 51,500 square miles.

The river gage, which belongs to the Weather Bureau, was reconstructed in 1900. It is located at the "brick wharf," and is in two sections, one inclined and one vertical. The inclined section (3 to 40.7 feet) is made of native sandstone and is laid along the wharf for a distance of

226 feet. Graduations are cut into the stone. The vertical section (40.7 to 57.1 feet) is spiked to a telegraph pole; it is made of 2 by 8 inch poplar, and is painted white, with black graduations.

Bronze tablet in west face of "Cornstalk Monument" in court-house yard, 100 feet west of Mason County court-house, is 60 feet above zero of the gage, and 574 feet above mean sea level. A mark on a stone, 6 inches from corner of building at northeast corner of Main and First streets, is 52.8 feet above zero of the gage, and 566.8 feet above mean sea level.

Graduation extends from 3 to 57.1 feet above zero. Highest water was 60 feet in February, 1884; lowest, 0.7 foot on October 27, 1893, and October 2 and 3, 1904. Danger line is at 39 feet.

#### POMPTON PLAINS, NEW JERSEY.

Pompton Plains, N. J. Established February 10, 1903. Is on the Pompton River, 6 miles from its mouth. The distance to the mouth of the Passaic River, into which it empties, is 55 miles. The width of the river at average low water is 255 feet. The drainage area above the station is 347 square miles.

The river gage, which belongs to the Weather Bureau, is located on the lock wall of the Morris Canal "feeder," near the house of the canal foreman. It is a cast-iron plate, 12 inches in width, with figures and intermediate graduations cast into the plate.

Graduation extends from zero to 12 feet above. Danger line is at 8 feet.

#### PORT JERVIS, NEW YORK.

Port Jervis, N. Y. Established August 1, 1904. Is on the Delaware River, 204 miles from its mouth, and 62 miles above Phillipsburg, N. J. The width of the river at average low water is 600 feet. The drainage area above the station is 3,376 square miles.

The river gage, which belongs to the Weather Bureau, is a chain and weight gage of the United States Geological Survey pattern, and is located on the downstream side, just beyond the channel pier of the new Barrett highway bridge over the Delaware River, and on the Pennsylvania side of the river.

Top of coping of first channel pier of bridge on which gage is located is 28.1 feet above zero of the gage, and 445 feet above mean sea level. Doorstep of Farnum building, on Pike street, just south of main entrance to building, is 24.5 feet above zero of the gage, and 441.4 feet above mean sea level. Tri-State Monument is 1.9 feet below zero of the gage, and 415 feet above mean sea level.

Graduation extends from zero to 13 feet above, and is extended to 25 feet on a 1 by 4 inch hardwood plank, painted white, with black markings. Highest water was 23.5 feet on March 8, 1904; high water of October 10, 1903, was 21.1 feet. Lowest water of record, -0.8 foot on September 28, 1891. Danger line is at 14 feet.

#### PORTLAND, MICHIGAN.

Portland, Mich. Established December 1, 1904. Is on the Grand River, 103 miles from its mouth, and 22 miles above Ionia, Mich. The width of the river at average low water is 200 feet. The drainage area above the station is 1,350 square miles.

The river gage, which belongs to the Weather Bureau, is a chain and weight gage of the United States Geological Survey pattern, and is located on the downstream side of the Bridge street iron highway bridge, being attached to the outer iron guard rail.

Bench mark, X, on north side of bridge, above first joint west of center, is 24.4 feet above zero of the gage, and 722.8 feet above mean sea level. Top of northeast corner of west abutment of Pere Marquette Railroad bridge is 14.2 feet above zero of the gage, and 712.6 feet above mean sea level.

Graduation extends from zero to 14 feet above, and can be extended indefinitely. Highest water was 14.4 feet on March 26 and 27, 1904; lowest, unknown. Danger line is at 12 feet.

## PORTLAND, OREGON.

Portland, Oreg. River observations began March 16, 1879. Is on the Willamette River, 12 miles above its junction with the Columbia. The width of the river at average low water varies from 600 to 1,300 feet. The drainage area above the station is 11,700 square miles.

The river gage, which belongs to the Weather Bureau, is located on the false-work of the draw of the Morrison street bridge, and consists of a 2 by 12 inch fir plank, painted white, with black graduations.

United States Geological Survey bench mark, at Fifth street entrance to Portland City Hall, is 75.4 feet above zero of the gage, and 76 feet above mean sea level. City base is 3.1 feet below zero of the gage, and 2.5 feet below mean sea level.

Graduation extends from 5 feet below to 36 feet above zero. Highest water was 33 feet on June 7, 1894; lowest, -2.2 feet on December 8, 1890. Danger line is at 15 feet.

## PORTSMOUTH, OHIO.

Portsmouth, Ohio. Established June 4, 1887. Is on the Ohio River, 612 miles from its mouth, and 53 miles above Maysville, Ky. The width of the river at average low water is 900 feet. The drainage area above the station is 66,300 square miles.

The river gage, which belongs to the city of Portsmouth, is a line of stone 3 feet wide extending down the wharf in front of the Biggs House. It is graduated in feet and half feet. The stone pavement in front of the Biggs House reads 57.5 feet on the gage.

Low-water mark of 1881, stone set in bank and inscribed "Low water of September 15, 1881," is 1.3 feet above zero of the gage, and 472.2 feet above mean sea level. Doorsill at inner edge of sidewalk at the Biggs House, at head of gage, is 57.5 feet above zero of the gage, and 528.4 feet above mean sea level. Zero of the gage is equivalent to hard bottom in the Ohio River between Portsmouth and Cincinnati.

Graduation extends from zero to 57.5 feet above. Highest water was 66.3 feet on February 12, 1884; lowest, 1.2 feet on October 29, 1895. Danger line is at 50 feet.

## PRAIRIE DU CHIEN, WISCONSIN.

Prairie du Chien, Wis. (formerly North McGregor, Iowa). Established November 16, 1893. Is on the Mississippi River, 1,759 miles from its mouth, and 60 miles above Dubuque, Iowa. The width of the river at average low water is 1,815 feet. The drainage area above the station is 74,000 square miles.

The river gage, which belongs to the United States Engineer Corps, is nailed to the oak piling forming the platform to the railroad freight house at Prairie du Chien (east channel). It consists of a 1 by 6 inch pine board with black painted graduations. Zero of gage is low-water mark of 1864.

U. S. P. B. M. 232, in Prairie du Chien, 2,100 feet below the Chicago, Milwaukee and St. Paul Railway bridge over the Mississippi River, at the river front of the Dousman House, on upper end of stone window sill of first window below upper entrance, being top of copper bolt

U. S.

lead vertically, and marked, .. ; is 25.5 feet above zero of the gage, and 630.9 feet

P. B. M.

above mean sea level. U. S. P. B. M. 233, in North McGregor, on north side of North street,

in O. A. Bratsberg's brick store, in water table 1 foot east from entrance, being top of copper bolt leaded vertically, is 26 feet above zero of the gage, and 631.4 feet above mean sea level.

Graduation extends from zero to 16 feet above. Temporary additions are provided for stages above 16 feet. Highest water was 21.5 feet on June 22, 1880; lowest, 0.0 on November 28, 1891. Danger line is at 18 feet.

#### PROSPECT, OHIO.

Prospect, Ohio. Established November 16, 1904. Is on the Scioto River, 147 miles from its mouth and 37 miles above Columbus, Ohio. The width of the river at average low water is 150 feet. The drainage area above the station is 650 square miles.

The river gage, which belongs to the Weather Bureau, is a chain and weight gage of the United States Geological Survey pattern, and is located on the Water street iron highway bridge. The gage box is bolted to the hand rail on the upstream side.

Plate on town hall, about 100 yards east of bridge on which gage is located, is 18 feet above zero of the gage, and 909 feet above mean sea level. Top of bridge plank, in north center of north walk opposite gage box, is 16.7 feet above zero of the gage, and 907.7 feet above mean sea level.

Graduation extends from zero to as far above as may be necessary. Highest water was 15.5 feet in the spring of 1904; lowest, 0.5 foot, date unknown. Danger line is at 9 feet.

#### PUEBLO, COLORADO.

Pueblo, Colo. Is on the Arkansas River, 1,334 miles from its mouth, and 298 miles above Dodge City, Kans. The width of the river at the gage is 149 feet. The drainage area above the station is 5,718 square miles.

The river gage, which belongs to the State of Colorado, is located on the south wall of the Union avenue bridge and on the west side. It is made of 4 by 8 inch timber, and is painted white with black graduations. Danger line is at 14 feet for the city and at 10 feet for the lowlands to the eastward.

#### RADFORD, VIRGINIA.

Radford, Va. Established January 26, 1895. Is on New River, 155 miles from its mouth, and 60 miles above Hinton, W. Va. The width of the river at average low water is 580 feet. The drainage area above the station is 2,725 square miles.

The river gage, which belongs to the Weather Bureau, is made of oak, and is attached to the iron framework connecting the pair of concrete cylinders that form the first pier from the right bank of the highway bridge near the Norfolk and Western Railway station. Graduations are shown by brass figures and copper tacks.

Top of rail in front of the Norfolk and Western Railway depot is 57 feet above zero of the gage, and 1,773 feet above mean sea level.

Graduation extends from zero to 36 feet above. Highest water was 34 feet on September 15, 1878; lowest, -2 feet on November 3-7, 1904. Danger line is at 14 feet.

#### READING, PENNSYLVANIA.

Reading, Pa. Established August 1, 1904. Is on the Schuylkill River, 66 miles from its junction with the Delaware River at Philadelphia, Pa. The width of the river at average low water is 250 feet. The drainage area above the station is 870 square miles.

The river gage, which belongs to the Schuylkill Navigation Company, is located at the canal shops on River street, at the foot of Spruce street, and is attached to piling. It is made of 2 by 8 inch pine timber, and is painted black with white graduations.

Zero of the gage is 187.9 feet above mean sea level.

Graduation extends in feet and inches from zero to 14 feet above. Highest water was 22 feet on July 18, 1850; on September 2, 1850, the stage was 21.6 feet; on October 4, 1869, 20.6 feet; and on February 28, 1902, 20.4 feet. Lowest water is unknown. Danger line is at 12 feet.

#### RED BLUFF, CALIFORNIA.

Red Bluff, Cal. River readings began December 15, 1878; were discontinued from October, 1884, to December, 1891, inclusive, and resumed on January 1, 1892. Station is on the Sacramento River, 201 miles from its mouth, and 10 miles above Tehama, Cal. The width of the river at average low water is 150 feet. The drainage area above the station is 11,085 square miles.

The river gage, which belongs to the Weather Bureau, is located on the east side of the river, opposite the city, and 30 feet above the wagon bridge. It is made of 2 by 6 inch pine timber, is bolted to a sycamore tree, and is painted white, with graduations cut into the wood and painted black.

Top of rail near Southern Pacific Railroad depot is 63 feet above zero of the gage, and 306 feet above mean sea level.

Graduation extends from zero to 32 feet above. Highest water was 29.5 feet on February 4, 1881; lowest, -0.9 foot on August 25-October 10, 1899. Danger line is at 23 feet for points below. The city itself is never in danger from floods.

#### REDDING, CALIFORNIA.

Redding, Cal. Established January 30, 1894. Is on the Sacramento River, 238 miles from its mouth, and 37 miles above Red Bluff, Cal. The width of the river at average low water is 280 feet. The drainage area above the station is 8,577 square miles.

The river gage, which belongs to the Weather Bureau, is made of 4 by 6 inch timber, and is located on the lower side of the lower iron cylinder of the west pier of the highway bridge across the river on the road from Redding to Millville, about  $1\frac{1}{2}$  miles below Redding. It is painted white with black graduations.

Top of east edge of above-described cylinder is 29 feet above zero of gage and 481 feet above mean sea level. Top of rail in front of Southern Pacific Railroad depot is about 103 feet above zero of the gage and 555 feet above mean sea level.

Graduation extends from 3 feet below to 30 feet above zero. Highest water was 23 feet in 1881; lowest 0.2 foot in 1889. Danger line is at 20 feet.

#### RED WING, MINNESOTA.

Red Wing, Minn. Established October 8, 1893. Is on the Mississippi River, at the head of Lake Pepin, 1,914 miles from the mouth of the Mississippi, and 30 miles above Reeds Landing Minn. The width of the river at average low water is 640 feet. The drainage area above the station is 54,460 square miles.

The river gage, which belongs to the United States Engineer Corps, was installed on August 13, 1904, to replace the one destroyed by the ice of the previous winter. It is attached to the retaining wall of the yard of the C. Betcher Lumber Company, back of the warehouse of the Blatz Brewing Company, one block west of the old station of the Chicago, Milwaukee and St Paul Railway, and is made of pine timber, painted white, with black graduations. A new gage will be necessary when the levee repairs have been completed.

U. S. P. B. M. 112, southwest corner Plum and Levee streets, northeast corner of La Grange Mill, in east face of foundation wall, 2.3 feet south from north face and 2.1 feet above sidewalk, being center of copper bolt leaded horizontally and marked  $\begin{smallmatrix} \text{U. S.} \\ \text{P. B. M.} \end{smallmatrix}$ , is 22.7 feet above zero of the gage, and 688 feet above mean sea level.

Graduation extends from zero to 8 feet above. Highest water was 15.3 feet on June 18, 1880; lowest, 0.0 in 1864. Danger line is at 14 feet.

#### REEDS LANDING, MINNESOTA.

Reeds Landing, Minn. Established November 16, 1893. Is on the Mississippi River at the foot of Lake Pepin, 1,884 miles from the mouth of the Mississippi, and 65 miles above La Crosse, Wis. The width of the river at average low water is 1,710 feet. The drainage area above the station is 55,065 square miles.

The river gage, which belongs to the United States Engineer Corps, is spiked to the piling on the west side of the draw of the pontoon bridge, and consists of a pine staff, painted white, with black graduations. Zero of the gage is low-water mark of 1864.

U. S. P. B. M. 139, top of cap on iron pipe set over U. S. P. B. M. 138, 58 feet east from intersection of south fence of Water street with tangent, produced, of pontoon bridge, in northeast corner of Arthur Dunn's lot, 8 feet south from front fence and 1.6 feet west of east fence, is 24.9 feet above zero of the gage, and 689.3 feet above mean sea level.

Graduation extends from zero to 16 feet above. Highest water was 14.8 feet in 1880; lowest, -1 foot on February 24, 1900. Danger line is at 12 feet.

#### RENOVO, PENNSYLVANIA.

Renovo, Pa. Is on the West Branch of the Susquehanna River, 90 miles from its mouth, and 18 miles above Farrandsville, Pa.

The river gage, which belongs to the Pennsylvania Railroad Company, is painted on a bridge pier, and is graduated to feet and half feet.

Top of rail in front of Pennsylvania Railroad depot is 30.6 feet above zero of the gage, and 668 feet above mean sea level.

Graduation extends from zero to 35 feet above. Highest water was 27.3 feet on June 1, 1889; lowest, -0.8 foot on September 21-25, 1898. Danger line is at 35 feet.

#### RESACA, GEORGIA.

Resaca, Ga. Established July 1, 1891. Is on the Oostanaula River, 38 miles above its confluence with the Etowah at Rome, Ga. The width of the river at average low water is 200 feet. The drainage area above the station is 1,505 square miles.

The river gage, which belongs to the Weather Bureau, is a triangular yellow-pine timber attached to the pier of the railroad bridge. Graduations are painted on the gage.

Top of rail in front of Nashville, Chattanooga and St. Louis Railway depot is 40.7 feet above zero of gage, and 658 feet above mean sea level.

Graduation extends from 1 foot below to 43.3 feet above zero. Highest water was 36.6 feet on April 1, 1886; lowest, 0.7 foot on September 27, 1904. Danger line is at 25 feet.

#### REYNOLDS, GEORGIA.

Reynolds, Ga. Established November 1, 1892. Is on the Flint River, 160 miles from its mouth, and 61 miles above Oakfield, Ga. The drainage area above the station is 2,000 square miles.

The river gage, which belongs to the United States Engineer Corps, is located on the middle pier of the railroad bridge, 3 miles east of the town. It is made of hard wood and graduations are painted on it.

Graduation extends from 2 feet below to 20 feet above zero. Highest water was 16.6 feet on February 13, 1900; lowest, -2.7 feet on November 15 and 23, 1899. Danger line is at 10 feet.

Station was discontinued on May 31, 1900.

#### RICHMOND, VIRGINIA.

Richmond Va. River observations began October 25, 1892. They were discontinued from December 1, 1895, to January 10, 1897, inclusive, and resumed on January 11, 1897. Station is on the James River, 111 miles from its mouth at Hampton Roads. The width of the river at average low water is 1,050 feet. The drainage area above the station is 4,971 square miles.

The river gage, which belongs to the Weather Bureau, is located at the foot of Virginia street, immediately east of the Southern Railway bridge. It is a Weather Bureau standard brass gage, and is attached to a heavy stone-embankment wall, being sunk flush into a cement buttress. Foot marks are cut into the cement.

Bench mark, United States Coast and Geodetic Survey, at corner of Seventeenth street and Winston alley, is 17.6 feet above zero of the gage, and 20.4 feet above mean sea level. Bench mark at City Hall is 161.4 feet above zero of the gage, and 164.2 feet above mean sea level.

Graduation extends from 1.3 feet below to 23.7 feet above zero. Highest water was 23.2 feet on December 31, 1901; lowest, -2.8 feet on September 29, October 29, November 12, and December 13 and 28, 1899. Danger line is at 12 feet.

#### RIO GRANDE CITY, TEXAS.

Rio Grande City, Tex. Established January 1, 1901. This station is on the Rio Grande, and is maintained as a portion of the Rio Grande flood service, with the cooperation of the United States Signal Corps.

#### RIOVISTA, CALIFORNIA.

Riovista, Cal. Established October 1, 1904. Is on the Sacramento River, 26 miles from its mouth, and 38 miles below Sacramento, Cal. The width of the river at average low water is 2,460 feet. The drainage area above the station is 30,047 square miles.

The river gage, which belongs to the Weather Bureau, is located on the third pile from the northeast corner of the town wharf, adjacent to the pumping station of the waterworks. It is made of 3 by 6 inch timber, and is painted white, with graduations cut into the wood and painted black.

B. M. 66 (United States Engineers Corps, 1880), on iron doorstep of brick building known as Westgate Building, is 17.6 feet above mean low water in Suisun Bay, into which the Sacramento River empties.

Graduation extends from 1 foot below to 16 feet above zero. Highest water of record was 15 feet on March 23, 1904; lowest, 2 feet in November, 1902. Danger line is at 12 feet.

#### RIPARIA, WASHINGTON.

Riparia, Wash. Established April 16, 1904. Is on the Snake River, 67 miles from its mouth at Pasco, Wash. The width of the river at average low water is 900 feet. The drainage area above the station is 101,856 square miles.

The river gage, which belongs to the Weather Bureau, is attached to the east end of the east draw guard of the steel bridge of the Oregon Railroad and Navigation Company over the

Snake River. The draw guard is made of heavy Oregon fir timbers, and is about 125 feet from the left bank of the river. The gage is made of 2 by 8 inch Oregon fir, painted white, with graduations of alternate black and white triangles. Figures for even feet are also cut into the wood.

Base of rail on bridge above gage is 37 feet above zero of the gage, and 553 feet above mean sea level.

Graduation extends from zero to 24 feet above. Highest water was 24.7 feet on June 5, 1894; lowest, 2 feet on August 18-28 and September 25-October 4, all inclusive, 1904. Danger line is at 30 feet.

#### RIVERSIDE, TEXAS.

Riverside, Tex. Established July 1, 1903. Is on the Trinity River, 112 miles from its mouth and 92 miles above Liberty, Tex. The width of the river at average low water is 60 feet. The drainage area above the station is 12,900 square miles.

The river gage, which belongs to the Weather Bureau, is located at the International and Great Northern Railroad bridge over the Trinity River and is in two sections. The lower section is attached to a pile sunk in the bed of the river; the upper section is fastened to a pier of the bridge. Both sections are made of 1 by 8 inch pine timber, painted white, with black graduations.

Top of rail on International and Great Northern Railroad bridge over Trinity River at Riverside, Tex., is 58.7 feet above zero of the gage, and 152.4 feet above mean sea level.

Graduation extends from zero to 50 feet above. Highest water of record was 39.4 feet on March 10, 1903; lowest, -0.7 foot on October 22-November 2, 1904. Danger line is at 40 feet.

#### RIVERTON, ALABAMA.

Riverton, Ala. Established as a special river station of the Weather Bureau on October 1, 1903. Is on the Tennessee River, 225 miles from its mouth and 130 miles above Johnsonville, Tenn. The width of the river at average low water is 1,075 feet and at bank-full stage 1,600 feet. The drainage area above the station is 30,850 square miles.

A new river gage was installed by the United States Engineer Corps on November 1, 1904. It is located at the lower end of the lift lock at Riverton; is made of 1½ by 5 inch poplar timber, with two faces placed at an obtuse angle to each other, and is in three sections. The first section (-0.2 to 24 feet) is on the lower approach wall of the lock. The second section (24 to 37 feet) is spiked to a tree about 50 feet from the lower section. The third section (37 to 60 feet) is set on posts on the embankment above the lock walls. Graduations are shown by pine strips nailed on the two faces.

Bench mark, top of coping of south wall of lift lock at lower corner of lower gate recess, is 29 feet above zero of the gage, and 388.5 feet above mean sea level. Zero of the new gage is 1.2 feet lower than that of the old one, and the proper corrections have been applied to the highest and lowest stages given below.

Graduation extends from 0.2 foot below to 60 feet above zero. Highest water was 51.5 feet on March 20, 1897; lowest, -1.9 feet on October 24, 25, 28-31, 1904. Danger line is at 26 feet.

#### RIVERTON, VIRGINIA.

Riverton, Va. Established September 1, 1901. Is on the Shenandoah River, 58 miles above its junction with the Potomac at Harpers Ferry, W. Va. The width of the river at average low water is 417 feet. The drainage area above the station is 2,624 square miles, of which 1,037 belong to the North Fork and 1,587 to the South Fork of the river.



A new river gage was installed by the Weather Bureau on September 1, 1901. It is located on the site of the old gage on the middle pier of the Norfolk and Western Railway bridge over the Shenandoah River, and consists of a 1½ by 12 inch pine plank, painted white, with graduations burned into the wood and painted black.

Top of rail in front of the Southern Railway depot is 43 feet above zero of the gage, and 493 feet above mean sea level.

Graduation extends from 2 feet below to 41 feet above zero. Highest water was 47 feet on September 30 and October 1, 1870; lowest, since 1900, -1.7 feet on July 1 and July 22-August 1, 1902. Danger line is at 22 feet.

#### ROCKLAND, TEXAS

Rockland, Tex. Established July 1, 1903. Is on the Neches River, 105 miles from its mouth and 87 miles above Beaumont, Tex. The width of the river at average low water is 110 feet. The drainage area above the station is 8,000 square miles.

The river gage, which belongs to the Weather Bureau, is located about 1 mile north of the town and about 180 feet below Dunkin's Ferry. It is made of 2 by 12 inch pine timber and is in two sections. The lower section is spiked to a pile driven into the bed of the river, while the upper section is spiked to an adjacent tree. Both sections are painted white, with graduations burned into the wood and painted black.

Bench mark, bottom of tie on Texas and New Orleans Railroad bridge, is 40.5 feet above zero of the gage, and 136 feet above mean sea level.

Graduation extends from 2 feet below to 33 feet above zero. Highest water of record was 23 feet in 1903; lowest, -0.8 foot on October 20 and October 27-November 19, 1904. Danger line is at 20 feet.

#### ROCKWOOD, TENNESSEE.

Rockwood, Tenn. Established December 1, 1884. Is on the Tennessee River, 541 miles from its mouth, and 89 miles above Chattanooga, Tenn. The width of the river at average low water is 740 feet. The drainage area above the station is 16,200 square miles.

The river gage, which belongs to the Weather Bureau, is attached to a red elm tree on the south bank of Kings Creek at Rockwood Landing, about 70 feet from the Tennessee River. The United States Engineer Corps has also erected two temporary gages a short distance from the Weather Bureau gage, but they can be read by boatmen only. The gage is made of heart pine, 6 by 6 inches up to the 20-foot mark, 5 by 6 inches from the 20 to the 30 foot mark, and 4 by 6 inches from the 30 to the 45.6 foot mark. The whole is painted white, with foot and half-foot graduations in red and intermediate ones in black.

Bench mark, on east face of Mourfield Hotel, 3.93 meters north of southeast corner of main building and 1.08 meters above ground, in south end of stone window sill, being horizontal chisel mark in end of brass bolt leaded horizontally, is 179.8 feet above zero of the gage, and 879.5 feet above mean sea level. B. M. O., top step leading to front door of office of Roane Iron Company at Rockwood, is 272.5 feet above zero of the gage, and 972.2 feet above mean sea level. Bench mark in Peterman block, south side of Rockwood avenue, in stone base under first window east of large arched entrance, 0.158 meter west of brickwork and 0.117 meter back from face of stone, is 178.1 feet above zero of the gage, and 877.8 feet above mean sea level.

Graduation extends in feet and inches from 2 feet below to 45.6 feet above zero. Highest water was 44.5 feet in 1867; lowest, -0.8 foot on December 1-7, 1894. Danger line is at 20 feet.

## ROGERSVILLE, TENNESSEE.

Rogersville, Tenn. Established March 10, 1902. Is on the Holston River, 103 miles above Knoxville, Tenn., at its mouth. The width of the river at average low water is 420 feet. The drainage area above the station is 1,150 square miles.

The river gage, which belongs to the Weather Bureau, is attached to the west face of the third stone pier from the north end of the Southern Railway bridge over the Holston River at Austin's Mills, Tenn., about 4 miles east of Rogersville. It is made of 2 by 12 inch oak timber, painted white, with graduations burned into the wood and painted black.

Cross mark on a large oval rock, 59.8 feet northeast of gage, is 2.4 feet above zero of the gage.

Graduation extends from zero to 50 feet above. Highest water since establishment of station was 17 feet on February 17, 1903; lowest, 1 foot on October 23–November 3, 1904. Danger line is at 14 feet.

## ROMA, TEXAS.

Roma, Tex. Established January 1, 1901. This station is on the Rio Grande, and is maintained as a portion of the Rio Grande flood service with the cooperation of the United States Signal Corps.

## ROME, GEORGIA.

Rome, Ga. Established November 1, 1890. Is at the head of the Coosa River, at the junction of the Oostanaula and Etowah rivers, 271 miles from the mouth of the Coosa, and 127 miles above Gadsden, Ala. The width of the river at average low water is 400 feet. The drainage area above the station is 4,006 square miles, of which 1,900 square miles belong to the Etowah and 2,106 square miles to the Oostanaula River.

The river gage, which belongs to the Weather Bureau, is located on the Fifth avenue highway bridge over the Oostanaula River, and, as there is practically no fall in the Oostanaula from the Fifth avenue bridge to the junction, the gage is used as a Coosa River gage. It is made of 4 by 6 inch heart pine and is in two sections. The first section (0 to 5 feet) is fastened to the downstream, left-hand corner of the cofferdam around the center pier of the turn span of the bridge. The second section (5 to 44 feet) is fastened to the downstream side of the same pier. Graduations are painted on both sections.

Top of rail in front of Southern Railway station is 38.2 feet above zero of gage, and 614 feet above mean sea level.

Graduation extends from 6 feet below to 43 feet above zero. Highest water was 40.3 feet on April 1, 1886; lowest, -3 feet on October 26, 1894. Danger line is at 30 feet.

## ROTHERWOOD, TENNESSEE.

Rotherwood, Tenn. Established December 1, 1904. Is on the Holston River, 142 miles from its mouth, and 39 miles above Rogersville, Tenn. The width of the river at average low water is 300 feet. The drainage area above the station is 780 square miles.

The river gage, which belongs to the Weather Bureau, is located on the right bank of the north fork of the Holston River, a short distance above the junction of the north and south forks. It is attached to a 10-foot stone pier, close to the water, and is made of 2 by 12 inch oak timber, painted white, and graduated with brass figures and copper tacks.

Graduation extends from 0.5 foot below to 30 feet above zero. Highest water was 21.2 feet in March, 1867; lowest, 0.5 foot, on September 14, 1904. Danger line is at 14 feet.

## ROWLESBURG, WEST VIRGINIA.

Rowlesburg, W. Va. Established in 1884. Is on the Cheat River, 36 miles above its junction with the Monongahela. The distance to Greensboro, Pa., on the Monongahela River, is 40 miles. The width of the river at average low water is 270 feet. The drainage area above the station is 890 square miles.

The river gage is painted on the center pier of the Baltimore and Ohio Railroad bridge.

United States Coast and Geodetic Survey bench mark, on base of center pillar on west end of Baltimore and Ohio Railroad bridge over Cheat River, is 26.7 feet above zero of the gage, and 1,402 feet above mean sea level.

Graduation extends from zero to 17 feet above. Highest water was 22 feet, on July 10, 1888; lowest, -1.4 feet, on November 10-12, 1901. Danger line is at 14 feet.

## SACRAMENTO, CALIFORNIA.

Sacramento, Cal. River observations began January 1, 1893. Is on the Sacramento River, 64 miles above Suisun Bay. The width of the river at average low water is 900 feet. The drainage area above the station is 28,433 square miles.

A new river gage was installed by the Weather Bureau in October, 1900, at the steamboat landing at the foot of K street. It is made of Oregon pine and is fastened to 4-inch blocks which are in turn secured to a pile at the extreme south end of the freight shed, the pile forming one of the supports of the shed. Gage is painted white, with graduations burned into the wood and painted black. To its top is fastened a board which bears the inscription, "U. S. Weather Bureau," together with the highest and lowest recorded stages of water.

Zero of gage is low-water mark of October 23, 1856, and is 0.5 foot below mean sea level. Top of rail in front of Southern Pacific Railroad depot is 25.5 feet above zero of the gage, and 25 feet above mean sea level. Aluminum tablet in north wall of post-office building, Seventh and K streets, 5 feet above ground and 15 feet east of northwest corner, marked "31 B, 1905," is 31.1 feet above zero of the gage, and 30.6 feet above mean sea level.

Graduation extends from zero to 33.5 feet above. Highest water was 28.6 feet, on December 27, 1892; lowest, 0.0, in September and on October 23, 1856. Danger line is at 29 feet for the city and at 25 feet for points below.

## SAINT CLOUD, MINNESOTA.

St. Cloud, Minn. Established August 16, 1904. Is on the Mississippi River, 2,034 miles from its mouth, and 80 miles above St. Paul, Minn. The width of the river at average low water is 540 feet. The drainage area above the station is 20,433 square miles.

The river gage, which belongs to the Weather Bureau, is attached to the southwest end of the west pier of the St. Germain street highway bridge, and is made of 2 by 12 inch pine timber, painted white with graduations burned into the wood and painted black.

Bench mark,  $\frac{1}{2}$ -inch lead plug in top of west abutment of old bridge under present St. Germain street bridge, is 6.3 feet above zero of the gage, and 1,004.9 feet above mean sea level.

Graduation extends from 3 feet below to 7 feet above zero. Highest water of record was 4 feet, date unknown; lowest, 0.0, date unknown. Danger line is at 4 feet.

## SAINT JOSEPH, MISSOURI.

St. Joseph, Mo. Established June 22, 1873. Is on the Missouri River, 481 miles from its mouth, and 93 miles above Kansas City, Mo. The width of the river at average low water is 1,200 feet. The drainage area above the station is 426,900 square miles.

The river gage, which belonged to the Missouri River Commission, is of the wire-cable pattern, and is located on the draw span of the Hannibal and St. Joseph Railroad bridge. Graduations are painted on oak planking and extend from 375 to 410 feet. Stages of water are obtained by subtracting 381.4 feet from observed readings.

P. B. M. 583 (old B. M. 312), highest point in southwest angle of marked cross, on east pier of Hannibal and St. Joseph Railroad bridge pier, 126 feet south of north edge of coping of pier, is 24.6 feet above zero of the gage, and 823.5 feet above mean sea level.

U. S. P. B. M. 286, center of punch mark in copper bolt leaded horizontally, at southeast corner of Felix and South Second streets, in northwest corner of city hall, 1 foot east of corner of building on Felix street, and 5 feet above sidewalk, is 43.1 feet above zero of the gage, and 842 feet above mean sea level.

Zero of old gage, cut in southeast corner of first pier of Hannibal and St. Joseph Railroad bridge, is 3.8 feet above zero of the gage, and 802.7 feet above mean sea level.

North end of stone doorsill, east entrance to office building of Union Terminal Company, is 31.4 feet above zero of the gage, and 830.3 feet above mean sea level.

City datum is 18.8 feet above zero of the gage, and 817.7 feet above mean sea level.

Graduation extends from 6.4 feet below to 28.6 feet above zero. Highest water was 21.9 feet on April 29, 1881; lowest, -4.5 feet on December 29, 1904. Danger line is at 10 feet.

#### SAINT LOUIS, MISSOURI.

St. Louis, Mo. River observations began January 7, 1872. Is on the Mississippi River, 1,264 miles from its mouth and 75 miles above Chester, Ill. The width of the river at average low water is 1,524 feet. The drainage area above the station is 699,000 square miles.

The river gage, which belongs to the United States Engineer Corps, was built during 1902, and readings from the new gage were begun on February 15, 1903. It is very near to the site of the old gage at the foot of Market street, and is in three sections. The first section (0 to 31.4 feet) is inclined and is made of concrete built on piles, with 6-inch I-beams embedded in the concrete flush with the levee paving. Cross sections of concrete, 2 by 2 feet and 2½ feet in depth, are placed every 8 feet and supported on 12-inch piles 15 feet in length. Total length of the section is about 200 feet. Graduations are cut into the steel beams. The second section (30 to 36 feet) is a 6-inch I-beam set vertically on the south side of the Harbor Office at the foot of Market street. Graduations are cut into the steel beam. The third section (34 to 41.5 feet) is painted on a steel pillar of the Merchants' Terminal Railway elevated road at foot of Market street.

St. Louis Directrix is 33.7 feet above zero of the gage, and 413.7 feet above mean sea level. U. S. P. B. M. 15, small hole in copper bolt leaded into east side of west pier of arch No. 4 of Eads bridge, 20.1 feet south of north end of pier and 5.5 inches above top course of granite, is 36.4 feet above zero of the gage, and 416.4 feet above mean sea level.

Graduation extends from zero to 41.5 feet above. Highest water was 41.4 feet on June 28, 1844; lowest, -2.5 feet on January 2, 1900. Danger line is at 30 feet.

To eliminate small errors on the old gage, 0.1 foot should be added to all readings below the 22-foot stage from January 1, 1899, to February 14, 1903, inclusive. This correction has been applied to the lowest stage given in preceding paragraph.

#### SAINT MARYS, WEST VIRGINIA.

St. Marys, W. Va. Established November 1, 1904. Is on the Ohio River, 813 miles from its mouth and 28 miles above Parkersburg, W. Va. It is at the mouth of Middle Island Creek.

# DESCRIPTION OF THE GAGE

## GENERALITY OF THE

The gage is located on the Mississippi River, 84 miles from its mouth. The width of the river at average low water is 300 feet. The station is 7,940 square miles.

The gage is a hard pine, painted white, with graduations of copper. It is located on the downstream side of the central granite pier of the bridge over the river. The gage is kept in good condition by the United States Engineer Corps.

Graduation above zero is 19.7 feet. Highest water was 20.2 feet on October 26, 1904. Danger line is at 12 feet.

## DESCRIPTION OF THE GAGE

The gage is a hard pine, painted white, with graduations of copper. It is located on the downstream side of the central granite pier of the bridge over the river. The gage is kept in good condition by the United States Engineer Corps.

Graduation above zero is 19.7 feet. Highest water was 20.2 feet on October 26, 1904. Danger line is at 12 feet.

The gage is a hard pine, painted white, with graduations of copper. It is located on the downstream side of the central granite pier of the bridge over the river. The gage is kept in good condition by the United States Engineer Corps.

## SOUTH CAROLINA.

The gage is a hard pine, painted white, with graduations of copper. It is located on the downstream side of the central granite pier of the bridge over the river. The gage is kept in good condition by the United States Engineer Corps.

Graduation above zero is 19.7 feet. Highest water was 20.2 feet on October 26, 1904. Danger line is at 12 feet.

The gage is a hard pine, painted white, with graduations of copper. It is located on the downstream side of the central granite pier of the bridge over the river. The gage is kept in good condition by the United States Engineer Corps.

Graduation above zero is 19.7 feet. Highest water was 20.2 feet on October 26, 1904. Danger line is at 12 feet.

## SALEM, OREGON.

The gage is a hard pine, painted white, with graduations of copper. It is located on the downstream side of the central granite pier of the bridge over the river. The gage is kept in good condition by the United States Engineer Corps.

The river gage, which belongs to the Weather Bureau, was installed on March 5, 1901, and is in two sections. The first (0 to 13 feet) is attached to a pile nearest the lowest or farthest downstream portion of the dock of the Oregon Railroad and Navigation Company; the second (13 to 25 feet) is attached to the farthest upstream piling of the dock. A third section (25 to 35 feet) was installed in the same locality during August, 1901. All the sections are made of 2 by 12 inch Oregon fir, and are painted white, with black graduations. Gage was washed away in 1904 and United States Engineers' gage used since that time. The location is the same.

Top of rail in front of Southern Pacific Railroad depot, 2 miles due east, is about 80 feet above zero of the gage, and is 195 feet above mean sea level.

City datum, water table of the Willamette Hotel, is believed to be 48 feet above zero of the gage, and about 163 feet above mean sea level.

Graduation extends from zero to 35 feet above. Highest water since 1891 was 29.5 feet on January 16, 1901; lowest, -2 feet on October 1-19, 1897. Danger line is at 20 feet.

#### SALTSBURG, PENNSYLVANIA.

Saltsburg, Pa. Established November 1, 1901. Is on the Kiskiminetas River, 22 miles above Freeport, Pa., at its mouth. The width of the river at average low water is 332 feet. The drainage area above the station is 1,400 square miles, of which about 300 square miles belong to the watershed of the Loyalhanna River.

The river gage, which belongs to the Weather Bureau, is painted on the middle stone pier of the county bridge over the Kiskiminetas River, just below the junction of the Loyalhanna River. Graduations are painted in white on a black ground.

Footway of bridge on which the gage is located is 24.2 feet above zero of the gage, and 852.5 feet above mean sea level.

Graduation extends from 1 foot below to 20 feet above zero. Highest water was 22.1 feet in 1859; lowest, -1.8 feet, on October 4-November 9, 1892. Danger line is at 6 feet.

#### SAN ANDREAS BRIDGE, CALIFORNIA.

San Andreas Bridge, Cal. Established January 8, 1896. Is on the Calaveras River, 54 miles from its mouth and 89 miles from the mouth of the San Joaquin River. The drainage area above the station is 230 square miles.

The river gage, which belongs to the Weather Bureau, is located about 2 miles from the town, and consists of a painted pine board with brass graduations.

Bench mark, white X on projecting ledge on southwest corner of old chimney, known as Ellingwood's chimney, is 9 feet above high-water mark, or 25 feet above zero of the gage. Zero of the gage is set at low water, which corresponds to a dry channel in the river.

Highest water was 16 feet, date unknown; lowest, unknown. Danger line is at 20 feet.

#### SAN JOAQUIN BRIDGE (LATHROP), CALIFORNIA.

San Joaquin Bridge, Cal. Established January 8, 1896. Is on the San Joaquin River, 49 miles from its mouth. The drainage area above the station is 25,370 square miles.

The river gage, which belongs to the State of California, is attached to a pier of the Southern Pacific Railroad bridge over the San Joaquin River, and is made of 1 by 6 inch pine timber with painted graduations.

Zero of gage is 20 feet below mark on a gum tree in the vicinity. Highest water of record was 18 feet on May 26 and 27, 1904; lowest, 0.2 foot on September 19, 1904. Danger line is at 15 feet.

## SANTA MARIA, TEXAS.

Santa Maria, Tex. Established January 1, 1901. This station is on the Rio Grande, and is maintained as a portion of the Rio Grande flood service with the cooperation of the United States Signal Corps.

## SCHAGHTICOKE, NEW YORK.

Schaghticoke, N. Y. Established February 21, 1903. Is on the Hoosic River, 5 miles from its mouth. The width of the river at average low water is 390 feet. The drainage area above the station is 655 square miles.

The river gage, which belongs to the Weather Bureau, is attached to the corner of the Empire Mill and Coal Company's mill, the corner jutting out into the dam about 12 feet back from the bulkhead. The mill while running uses so little water that the level of the latter is not lowered. The gage is made of 1½ by 6 inch pine timber, painted white, with black graduations.

Zero of gage corresponds with crest of dam, and is about 255 feet above mean sea level.

Graduation extends from zero to 12 feet above. Danger line is at 6 feet.

## SCHENECTADY, NEW YORK.

Schenectady, N. Y. Established February 21, 1903. Is on the Mohawk River, 19 miles from its mouth. The width of the river at average low water is 750 feet. The drainage area above the station is 3,321 square miles.

The river gage, which belongs to the Weather Bureau, is located on the downstream end of the first pier from the south abutment of the highway bridge connecting the city of Schenectady with the village of Scotia, and consists of a 1½ by 6 inch pine board, painted white, with black graduations. It is bolted to an unpainted 2 by 12 inch plank, which, as the pier has a batter of 1 to 12, is maintained in a vertical position by iron braces bolted both to the plank and to the masonry joints of the pier. There is another gage painted on the same pier.

Zero of gage is 208.8 feet above mean sea level.

Graduation extends from zero to 24 feet above, Danger line is at 15 feet.

## SCHOHARIE JUNCTION, NEW YORK.

Schoharie Junction, N. Y. Established February 21, 1903, Is on Schoharie River, 19 miles above Fort Hunter, N. Y., at its junction with the Mohawk River. The width of the river at average low water is 250 feet. The drainage area above the station is 617 square miles.

The river gage, which belongs to the Weather Bureau, is located on the east abutment at the east end of the bridge over the Schoharie River, and near the railroad station. An extension is provided on the wing of the abutment. Gage is made of 1½ by 6 inch pine timber, painted white, with black graduations.

Cooper plug on downstream side of first coping of bridge is 27.3 feet above zero of gage and 594.3 feet above mean sea level.

Graduation extends from zero to 24 feet above. Danger line is at 20 feet.

## SELINGSGROVE, PENNSYLVANIA.

Selinsgrove, Pa. Established October 1, 1892. Is on the Susquehanna River, 116 miles from its mouth and 34 miles above Duncannon, Pa. The width of the river at average low water is about 1 mile, this including an island 400 feet in width. The drainage area above the station is 19,797 square miles.

A new river gage was installed by the Weather Bureau on June 28, 1902. It is located on the west side near the south end of the second pier of the Pennsylvania Railroad bridge over the Susquehanna River at Selinsgrove. Pier is built of stone and is 350 feet from the west shore of the river. The gage consists of black graduations painted on a white ground, 12 inches in width.

Top of pier, on which gage is painted, is 22 feet above zero of the gage, and 433.6 feet above mean sea level. Top of rail on bridge above gage is 27.7 feet above zero of the gage, and 439.3 feet above mean sea level. An iron plug is set in the masonry of the pier opposite the 20-foot mark.

Graduation extends from zero to 22 feet above. Highest water was 20 feet on June 2, 1889; lowest, -0.1 foot on February 28, 1901. Danger line is at 17 feet.

#### SELMA, ALABAMA.

Selma, Ala. Established November 1, 1890. Is on the Alabama River, 212 miles from its mouth and 53 miles below Montgomery, Ala. The width of the river at average low water is 305 feet. The drainage area above the station is 15,400 square miles.

A new river gage was installed by the Weather Bureau on June 1, 1902. It is made of 1 by 6 inch heart pine, and is in two sections. The first (-3 to 5 feet) is bolted to the downstream face of the first pile from the southwest corner of the first pier of the Selma highway bridge; the second (5 to 55 feet) is bolted to the downstream face of the above-mentioned pier. Both sections are painted white, with black graduations.

Top of rail in front of Southern Railway depot at Broad street is 64.7 feet above zero of the gage, and 126 feet above mean sea level. Top of coping stone of pivot pier of highway bridge to which gage is attached is 56 feet above zero of the gage and 117.3 feet above mean sea level. Bench mark, iron bolt driven into face of rock bluff, 182.3 feet from center of north face of first pier of highway bridge and above the bridge, on road ascending toward the city, is 26 feet above zero of the gage, and 87.3 feet above mean sea level.

Graduation extends from 3 feet below to 55 feet above zero. Highest water was 57 feet on April 8, 1886; lowest, -2 feet on September 28-October 19, 1897. Danger line is at 35 feet.

#### SHERWOOD, OHIO.

Sherwood, Ohio. Established November 16, 1904. Is on the Maumee River, 71 miles from its mouth, and 10 miles above Defiance, Ohio, at the mouth of the Auglaize River. The width of the river at average low water is 300 feet. The drainage area above the station is 1,845 square miles.

The river gage, which belongs to the United States Geological Survey, is a standard chain and weight gage of that Bureau, and is attached to the guard rail, on the upstream side of the highway bridge, 2½ miles south of the village of Sherwood.

Bench mark, cut on top of guard rail, directly over pulley of gage, is 29.7 feet above zero of the gage. Copper plug on next to top stone on west wing wall of north abutment of same bridge, is 22.3 feet above zero of the gage. Zero of the gage is approximately 700 feet above mean sea level.

Graduation extends from 1 foot below to 24 feet above zero. Highest water was 18 feet in the spring of 1904; lowest, 1.9 feet on July 17, 1903. Danger line is at 12 feet.

#### SHREVEPORT, LOUISIANA.

Shreveport, La. River observations began May 18, 1873. Is on the Red River, 327 miles from its mouth, and 104 miles above Lake End, La. The width of the river at average low



water is 600 feet; at high water, 1,350 feet. The drainage area above the station is 56,900 square miles.

The river gage, which belongs to the United States Engineer Corps, is vertical gage in three sections. The first section, (—8.1 to 0 feet) is made of 2 by 4 inch scantling, and is spiked to one of a clump of piling about 164 feet above the second section; the second section (—3 to 24 feet) is made of 2 by 8 inch cypress timber, and is fastened to the land face (lower end) of the first stone abutment pier from the Shreveport side of the Vicksburg, Shreveport and Pacific Railway bridge. Graduations are burned into these two sections. The third section (23.5 to 37 feet) is painted on the land face (lower corner) of the downstream one of the first two cylinder piers from the Shreveport side.

B. M. 2, cross cut in lower cap of retaining wall on southwest side of Vicksburg, Shreveport and Pacific Railway bridge, is 40.8 feet above zero of the gage, and 181.8 feet above mean sea level. Cross cut in curbstone on north side of Cotton street, at its intersection with the levee, is 47.2 feet above zero of the gage, and 188.2 feet above mean sea level.

Graduation extends from 8.1 feet below to 37 feet above zero. Highest water was 35.9 feet in 1849; high water of May 28, 1892, was 35.7 feet; lowest water, —5.5 feet on December 2–4, 1894. Danger line is at 29 feet.

#### SHUBUTA, MISSISSIPPI.

Shubuta, Miss. Established October 1, 1904. Is on the Chickasawhay River, 106 miles from its mouth. The width of the river at average low water is 45 feet. The drainage area above the station is 1,268 square miles.

The river gage, which belongs to the Weather Bureau, is attached to the middle wooden pier on the downstream side of the Clark County highway bridge over the Chickasawhay River. It consists of a 2 by 12 inch board fastened to a 6 by 12 inch support, the whole being bolted to the wooden pier. The gage is painted white, with graduations of brass figures and copper tacks.

Top of rail in front of Mobile and Ohio Railroad depot is 50 feet above zero of the gage, and 197 feet above mean sea level. Floor of bridge above gage is 47 feet above zero of the gage, and 194 feet above mean sea level.

Graduation extends from zero to 52 feet above. Highest water was 45 feet in April, 1900; lowest, 2 feet in June, 1904. Danger line is at 25 feet.

#### SIMMESPORT, LOUISIANA.

Simmesport, La. Established December 1, 1904. Is on the Atchafalaya River, 127 miles from its mouth, and 24 miles above Melville, La. The width of the river at average low water is 2,600 feet.

The river gage, which belongs to the Weather Bureau, is in two sections, one inclined and one vertical. The inclined section (—4 to 34 feet) is laid along the river bank, about 500 yards below the railroad depot. It is 180 feet in length, and consists of 6 by 6 inch heart pine, bolted to 6 by 6 inch piling, placed 6 feet apart, and driven 6 feet into the bank. The upstream side is strapped with one-fourth by 2 inch wrought iron, and the whole is painted white, with graduations of brass figures and copper tacks. Graduations are also cut into the iron strap. The vertical section (34 to 52.7 feet) is located just inside the levee, about 100 yards below the railroad depot, and consists of a single piece of 4 by 8 inch piling, 24 feet in length, and set 6 feet in the ground. Graduations are painted on the shore face.

P. B. M. 25, Texas and Pacific Railway track, spike driven into telegraph pole opposite station, is 50.9 feet above zero of the gage, and 49.2 feet above mean sea level.

Graduation extends from 4 feet below to 52.7 feet above zero. Danger line is at 33 feet.

## SINKING SPRING, TENNESSEE.

Sinking Spring, Tenn. Established March 10, 1902. Is on the French Broad River, 21 miles from its mouth.

The river gage, which belonged to the Weather Bureau, was attached to the east face of a large sycamore tree at the north landing of Hamstead's ferry. The sycamore is the only large one at the north end of the ferry. The gage was made of 2 by 12 inch oak timber, painted white, with graduations burned into the wood and painted black. A piece of heart pine timber, 2 by 12 inches and 35 feet in length, was attached to the tree with its lower end resting upon a stone in the bottom of the river, and to this timber the gage was screwed.

Point of large rock that projects out into the river, about 150 feet east of the gage, is 1.4 feet above zero of the gage.

Graduation extended from zero to 30 feet above. Danger line is at 15 feet.

Station was closed on June 30, 1902.

## SINNEMAHONING, PENNSYLVANIA.

Sinnemahoning, Pa. Established November 1, 1904. Is on the Sinnemahoning River, 12 miles above its mouth, at Keating, Pa., and 52 miles above Lockhaven, Pa., on the west branch of the Susquehanna River. The width of the river at average low water is 325 feet. The drainage area above the station is 694 square miles.

The river gage, which belongs to the Pennsylvania Railroad Company, is painted on the south end of the west side of the west pier of the Sinnemahoning bridge of the Philadelphia and Erie division of the Pennsylvania Railroad, 66 feet from the bank. Graduations are painted in black on an 18-inch white ground.

Top of rail in front of Pennsylvania Railroad depot is 22.4 feet above zero of the gage, and 790.4 feet above mean sea level.

Graduation extends from zero, or bed of river, to 18 feet above. Highest water was 28 feet, in 1847; lowest, 0.0 on various dates. Danger line is at 28 feet.

A new gage was placed in position in August, 1904. Its zero is evidently 3 feet lower than that of the old gage, and 3 feet should be added to all readings previous to August 1, 1904. Figures above are correct.

## SIOUX CITY, IOWA.

Sioux City, Iowa. River observations began July 1, 1887. Is on the Missouri River, 784 miles from its mouth, and 115 miles above Omaha, Nebr. The width of the river at average low water is 2,400 feet. The drainage area above the station is 314,900 square miles.

A new river gage was installed by the Weather Bureau in March, 1900. It is located at the mouth of Perry Creek, and is spiked to the surface of the old gage, which is attached to a clump of white-oak piling. It is made of 2 by 6 inch yellow pine, and is painted white, with graduations cut into the wood and painted black. The ground having filled in around this gage, a supplementary low-water gage was installed a short time later at the foot of Pearl street, about 500 feet below the mouth of Perry Creek. Its construction is similar to that of the gage proper. On account of changes made by river improvements, it became necessary on September 28, 1900, to remove the supplementary gage, and it was accordingly fastened to the dike, or shore protection, of the north end of the Combination bridge, about 500 feet above the old location.

Missouri River Commission bench mark, 466A, on underside of marked brick on water table at southeast corner of Sanborn & Follet's brick building, on southwest corner of Third and Water streets, is 28.9 feet above zero of the gage, and 1,107.8 feet above mean sea level. The zero of the supplementary gage is 0.1 foot lower than that of the other.

Missouri River Commission bench mark "A," center of outside edge of sill of false window in Sioux City court-house basement, on west side, near southwest corner, is 34 feet above zero of the gage, and 1,112.9 feet above mean sea level.

P. B. M. 396= $1\frac{1}{4}$ <sup>3</sup>, in southwest corner of court-house yard, 72 feet from southwest corner of court-house, and 135 feet from southeast corner of same, being copper bolt in bench mark stone, set below frost line, and covered with a vertical iron pipe and cap, is 30.3 feet above zero of the gage, and 1,109.2 feet above mean sea level. Top of iron cap is 4 feet above copper bolt.

Graduation on the gage proper extends from zero to 20 feet above, and on the supplementary gage from 1 foot below to 15 feet above zero. Highest water was 25 feet on May 18, 1892; lowest -0.3 foot, on December 4, 1882. Danger line is at 19 feet.

The Sioux City flood of May 18, 1892, came from the Floyd River when the Missouri River was at a 17-foot stage, and continued but a few hours. It crested at 12.30 p. m.; by 7 p. m. the water had fallen 1 foot, and by 8 a. m. May 19, was back to 17 feet. Similar floods occurred in 1876 and 1881. The highest recorded Missouri River flood stage was 22.2 feet, on April 23, 1881.

#### SMITHS MILLS, SOUTH CAROLINA.

Smiths Mills, S. C. Established July 1, 1898. Is on the Pedee River, 51 miles from its mouth. The width of the river at average low water is 300 feet. The drainage area above the station is 10,336 square miles.

The river gage, which belongs to the Weather Bureau, is attached to the central front wooden pier of the E. P. Smith wharf, and consists of a 1 by 6 inch hard-pine plank, painted white, with graduations in red and black.

Top of doorsill of house adjoining wharf is 25 feet above zero of the gage, and 42 feet above mean sea level.

Graduation extends from zero to 14 feet above. Highest water was 18.6 feet on February 16, 1899; lowest, -0.6 foot on September 16-18, 1897. Danger line is at 16 feet.

#### SOLON, MAINE.

Solon, Me. Established November 1, 1902. Is on the Kennebec River, 86 miles from its mouth, and 40 miles above Winslow, Me. The drainage area above the station is 2,900 square miles, of which 1,250 square miles belong to Moosehead Lake.

The river gage, which belongs to the International Paper Company, is fastened to one of the wooden piers supporting the gatehouse and machine shop of the International Paper Company's mill, the first pier from the railroad bridge that crosses the river at that point. It is made of  $1\frac{1}{4}$  by 8 inch pine timber, and is painted white, with black graduations.

Zero mark on the gage corresponds with the crest of the dam.

Graduation extends from zero to 10 feet above.

#### SPEERS FERRY, VIRGINIA.

Speers Ferry, Va. Established February 4, 1895. Is on the Clinch River, 156 miles from its mouth, and 104 miles above Clinton, Tenn. The width of the river at average low water is 300 feet. The drainage area above the station is 950 square miles.

The river gage, which belongs to the Weather Bureau, is located on the north bank of the river, and is bolted to an anchor buried in the ground; the top is bolted to an ash tree. It is made of 4 by 12 inch heart pine, and is painted white, with graduations shown by copper tacks. A supplementary low-water gage was installed on January 10, 1903. It is spiked to the lower abutment of the dam, 800 feet upstream from the gage proper, and is made of  $2\frac{1}{4}$  by 14 inch oak timber, painted and graduated in the same manner as the gage proper.

Zero of the gage is about 1,209 feet above mean sea level.

Railroad bench mark, on chestnut tree, about 200 feet east of railroad trestle, and northeast of residence of Mr. B. F. Venable. Elevation unknown.

Graduation on the gage proper extends from 2 feet below to 33 feet above zero, and on the supplementary gage from 2 feet below to 8 feet above zero. Highest water was 23.6 feet on March 1, 1902; lowest, -1.3 feet, on October 7-9, 1904. Danger line is at 20 feet.

#### SPRINGBANK, ARKANSAS.

Springbank, Ark. Established November 10, 1904. Is on the Red River, 441 miles from its mouth, and 114 miles above Shreveport, La. The width of the river at average low water is 350 feet, and at bank-full stage 500 feet. The drainage area above the station is 50,893 square miles.

The river gage, which belongs to the Weather Bureau, is located about 1 mile below the mouth of the Sulphur Fork of the Red River, on the Springbank side, and about 100 feet above the present ferry landing. It is made of 2 by 8 inch pine timber, and is in four vertical sections, the three lower ones each 10 feet, and the upper one 13 feet in length. Each section is attached to a pile driven 5 feet into the ground and secured by braces. The piles are about 15 feet apart, and are placed in a straight line down the river bank. The gage is painted white, with graduations burned into the wood and painted black.

B. M. (United States Weather Bureau, 1904), 2½ inch wrought-iron pipe, with screw cap and flange base, 6 inches square, at Springbank, 90 feet south (inshore) of top section of gage, right bank of Red River; pipe is 5.2 feet in length, with 4 feet set in ground. Elevation (top of cap) above zero of the gage, 57 feet; above mean sea level, 238.9 feet.

B. M. 7 (United States Engineers), copper bolt in bench-mark stone underground, with iron pipe on top, at Collins Bluff, about one-half mile below mouth of Sulphur Fork, about 100 feet from right bank of Red River, and about 50 feet north of a ravine, is 46.3 feet above zero of the gage, and 228.2 feet above mean sea level. Top of iron pipe is 4.7 feet above copper bolt.

Graduation extends from zero to 43 feet above. Highest water was about 38 feet, date unknown; lowest, about 0.0, date unknown. Danger line is at 29 feet.

#### SPRINGFIELD, OHIO.

Springfield, Ohio. Established December 16, 1904. Is on Mad River, 25 miles above its confluence with the Miami River at Dayton, Ohio. The width of the river at average low water is 70 feet. The drainage area above the station is 375 square miles.

The river gage, which belongs to the United States Geological Survey, is a standard chain and weight gage of that Bureau, and is attached to the guard rail near the middle of the "Red Bridge," about 2 miles west of Springfield. Plug at north end of bridge, upstream side, and on second stepstone in extreme westerly course, is 15.9 feet above zero of the gage. Center of pulley of gage is 19.8 feet above zero of the gage, which latter is approximately 900 feet above mean sea level.

Graduation extends from zero to as far above as may be necessary. Highest water was 14.7 feet, date unknown; lowest, 5.4 feet, date unknown. Danger line is at 10 feet.

#### STILLWATER, MINNESOTA.

Stillwater, Minn. Established August 16, 1904. Is on the St. Croix River, 23 miles from its mouth, and 43 miles above Red Wing, Minn., on the Mississippi River. The width of the river at average low water is 1,635 feet. The drainage area above the station is 6,300 square miles.

The river gage, which belongs to the United States Engineer Corps, is located near the pontoon bridge at the foot of Chestnut street, being attached to a cluster of five piles, 20 feet north of the bridge, and 50 feet from the right bank of the river. It consists of a 1 by 8 inch hemlock board, painted white, with black graduations.

Northwest corner of stone base of south iron pilaster, northeast corner of Main and Myrtle streets, is 24.7 feet above zero of the gage, and 691.4 feet above mean sea level.

Graduation extends from zero to 17 feet above. Highest water was 19.7 feet in 1850; lowest, -0.1 foot, on February 20, 1892. Danger line is at 11 feet.

#### STOYSTOWN, PENNSYLVANIA.

Stoystown, Pa. Established January 22, 1895. Is on Stony Creek, 20 miles above Johnstown, Pa. The drainage area above the station is 120 square miles.

The river gage, which was erected by Mr. H. F. Berkehile, is painted on a stone bridge pier.

Graduation extends from 2 to 10 feet above zero. Highest water was 4 feet on April 10, 1895; lowest, -3 feet, on various dates during October and November, 1895. Danger line is at 4 feet.

#### STUYVESANT, NEW YORK.

Stuyvesant, N. Y. Established February 21, 1903. Is on the Hudson River, 128 miles from its mouth, and 11 miles below Castleton, N. Y. The distance to Poughkeepsie, N. Y., on the Hudson, is 51 miles. The width of the river at average low water is 1,850 feet. The drainage area above the station is 9,527 square miles.

The river gage, which belongs to the Weather Bureau, is nailed to a pile west of the coal shed on Henry Best's dock. It is made of 1½ by 6 inch pine timber, painted white, with black graduations.

Bench mark, ⊕, cut in doorstep on west side of New York Central and Hudson River Railroad station, 230 feet northeast of the gage, is 14.3 feet above zero of the gage, and 13.2 feet above mean sea level. Zero of the gage is set at the plane of low water of 1876.

Graduation extends from zero to 12 feet above. Danger line is at 9 feet.

#### SUNBURY, PENNSYLVANIA.

Sunbury, Pa., is on the Susquehanna River, 122 miles from its mouth, and 6 miles above Selinsgrove, Pa. The drainage area above the station is 19,449 square miles.

The river gage, which belongs to the Pennsylvania Railroad Company, is painted on the face of the stonework of the west corner of the south abutment of Philadelphia and Erie Railroad bridge, No. 164, over the Susquehanna River at Sunbury, being over the south channel.

Graduation extends from 6 to 14 feet above zero. Owing to heavy riprapping around the abutment, the gage can not be extended to extreme low water.

#### SUTTON, WEST VIRGINIA.

Sutton, W. Va. Established April 1, 1902. Is on Elk River, 100 miles from its mouth. The width of the river at average low water is 200 feet. The drainage area above the station is 595 square miles.

The river gage, which belongs to the Weather Bureau, is located near the suspension bridge over Elk River at Sutton, W. Va., and is in three sections. The first section (0 to 8 feet) is inclined and extends down the bank of the river for 32 feet. It is made of heavy oak timbers, fastened to crosspieces about 4 feet apart, and weighted down. The second section (8 to 19 feet)

is a 10-inch dressed plank, and is secured to a sycamore tree. The third section (19 to 34 feet) is a heavy plank, 12 inches in width, and is fastened to a barn.

Top of rail in front of the West Virginia Central and Pittsburg Railway depot is 31 feet above zero of the gage, and 828 feet above mean sea level.

Graduation extends from zero to 34 feet above. Highest water was about 36 or 37 feet in 1861. Danger line is at 30 feet. At a 34-foot stage the water appears on High street, and at 32 feet it goes over the bridge floor.

#### SWANLAKE, MISSISSIPPI.

Swanlake, Miss. Established November 1, 1904. Is on the Yazoo River, 235 miles from its mouth, and 60 miles above Greenwood, Miss. The width of the river at average low water is 130 feet. The drainage area above the station is 4,786 square miles.

The river gage, which belongs to the Weather Bureau, is painted on the southeast round pier of the Tallahatchie County iron highway bridge, one-fourth of a mile east of Swanlake, and consists of white graduations on a black ground.

Bench mark, head of nail driven into telegraph pole, 1,050 feet north from junction of Yarbrough and Swanlake lines of Yazoo and Mississippi Valley Railroad Company at Swanlake, about 3 feet below surface of ground. Letters "B. M." are cut in pole above ground, and an arrow, also cut into pole, points downward toward bench mark. Elevation of nail above zero of the gage, 29.1 feet; above mean sea level, 145 feet.

Graduation extends from 6 to 32 feet above zero. Highest water was 29 feet in 1882; lowest, unknown. Danger line is at 24 feet.

#### TALLASSEE, ALABAMA.

Tallassee, Ala. Established November 1, 1890. Is on the Tallapoosa River, 35 miles above its confluence with the Coosa, and 50 miles above Montgomery, Ala. The width of the river at average low water is 585 feet. The drainage area above the station is 3,460 square miles.

A new river gage was installed by the Weather Bureau on February 11, 1902, and consists of seven sections. The first section (-3 to 0 feet) is driven into the bed of the river. Sections 2 to 5, inclusive (0 to 19 feet), are set in the river bank, 5 feet underground and 5 feet projecting. Sections 6 and 7 (19 to 33 feet) are driven into the river bank. The whole gage is made of 6 by 8 inch timbers, painted white, with black graduations.

Graduation extends from 3 feet below to 33 feet above zero. Highest water was 28 feet in 1886; lowest, -0.9 foot, on November 22, 1891, and December 1 and 2, 1894. Danger line is at 28 feet.

Station was discontinued on April 30, 1902.

#### TAZEWELL, TENNESSEE.

Tazewell, Tenn. Established September 1, 1904. Is on the Powell River, 44 miles from its mouth. The width of the river at average low water is 200 feet. The drainage area above the station is 675 square miles.

The river gage, which belongs to the Weather Bureau, is located on the left bank of Powell River at the ferry on the Tazewell and Cumberland Gap highway, and 7 miles from the town of Tazewell. It is made of 4 by 6 inch heart pine, is painted white, with black graduations, and is attached by 18-inch bolts to a sycamore tree.

Bottom of rail on Southern Railway bridge over Powell River is 1,065 feet above mean sea level. Same in front of Southern Railway station at Tazewell is 1,470 feet above mean sea level.

Graduation extends from 0.4 foot below to 29.6 feet above zero. Highest water was about 22.5 feet, in March, 1867; lowest, unknown. Danger line is at 20 feet.

## TEHAMA, CALIFORNIA:

Tehama, Cal. Established July 1, 1897. Is on the Sacramento River, 191 miles from its mouth, and 63 miles above Colusa, Cal. The drainage area above the station is 11,734 square miles.

The river gage, which belongs to the United States Engineer Corps, is a painted board fastened to the center or pivot pier of the Southern Pacific Railroad bridge over the Sacramento River.

Base of rail on bridge is 29.4 feet above zero of the gage.

On February 16, 1904, the water reached a height of 21 feet.

## TERRE HAUTE, INDIANA.

Terre Haute, Ind. Established December 1, 1904. It was formerly operated as a river station, but was closed on June 30, 1897. Is on the Wabash River, 171 miles from its mouth, and 68 miles above Vincennes, Ind. The width of the river at average low water is 540 feet. The drainage area above the station is 11,200 square miles.

The river gage, which belongs to the Weather Bureau, is in two sections. The first section (0 to 6 feet) is attached to the second pier of the Big Four Railroad bridge. The second section (6 to 32 feet) is attached to the first pier from the Terre Haute side of the same bridge. Both sections are made of 2 by 12 inch oak timber, with painted graduations.

B. M. (waterworks), top of cement curb of old pump house, is 28 feet above zero of the gage and 475.3 feet above mean sea level. B. M. (Big Four), letter "S," of lettering "W and S," on north side of east abutment of Big Four Railroad bridge, is 38.7 feet above zero of the gage and 486 feet above mean sea level. Top of rock on ledge on No. 3 engine room of waterworks, north-west corner, is 15.1 feet above zero of the gage and 462.4 feet above mean sea level.

Graduation extends in feet and every 2 inches from zero to 32 feet above. Highest water was 27.7 feet on February 18, 1883; lowest, -1.2 feet, on December 19-23, 1904. Danger line is at 16 feet.

## THE DALLES, OREGON.

The Dalles, Oreg. Established February 1, 1892. Is on the Columbia River, 166 miles from its mouth, and 47 miles above Cascade Locks, Oreg. The width of the river at average low water is 684 feet. The drainage area above the station is 226,508 square miles.

The river gage, which belongs to the Weather Bureau, is in four sections. The three upper sections are attached to wooden piling supporting an inclined plank roadway, which is about 500 feet in length and runs from the foot of Court street to a wharf boat. The first section (-1.1 to 12.4 feet) is made of 8 by 12 inch Oregon fir, and is bolted to a pile; the second section (12.4 to 24.4 feet) is made of 2 by 4 inch Oregon fir, and is spiked to a pile on the east side of the inclined roadway; the third section (24.4 to 34.4 feet) is made of 2 by 5.5 inch Oregon fir, and is spiked to a pile on the east side of the inclined roadway, about 480 feet north of Main street; the fourth section (30 to 46 feet) is made of 2 by 8 inch hard pine, and is spiked to a pile about 260 feet north of Main street and 30 feet west from the northwest corner of the warehouse of the Portland and Astoria Company, facing south. All the sections are painted white, with black graduations. The gage was nearly all washed away in the spring of 1904, and the United States Engineers' gage has been used since that time. The Weather Bureau will install a new gage.

United States Geological Survey bench mark, post set in southeast corner of court-house lot, near corner of Union and Third streets, is 57.3 feet above zero of the gage and 102.9 feet above

mean sea level. Zero of United States Engineer Corps gage at The Dalles is 8.9 feet below that of the Weather Bureau gage.

Graduation extends from -1.1 feet below to 46 feet above zero. Highest water was 59.6 feet on June 6, 1894; lowest, -0.8 foot, on December 17 and 18, 1898. Danger line is at 40 feet.

#### TIFFIN, OHIO.

Tiffin, Ohio. Established November 16, 1904. Is on the Sandusky River, 65 miles from its mouth, and 43 miles above Fremont, Ohio. The width of the river at average low water is 250 feet. It is confined by retaining walls for one-half mile on each side of the Washington street highway bridge. The drainage area above the station is 1,004 square miles.

The river gage, which belongs to the city of Tiffin, is attached to the retaining wall of the building owned by Mrs. M. J. Baldwin and occupied by Dildine & Heilman, on the right bank of the river, just below the end of the Washington street highway bridge. It is made of wood, painted white, and graduated with brass figures and copper tacks. Zero of gage is low-water mark.

Bench mark, large limestone, properly dressed, southeast corner Washington and River streets, very near gage, but top now covered by brick pavement, is 12.2 feet above zero of the gage and 720 feet above mean sea level.

Graduation extends from 1 foot below to 24 feet above zero. Highest water was 11.4 feet on April 2, 1904; lowest, 0.0, date unknown. At the upper end of the retaining wall the highest water was 18.5 feet on April 2, 1904. Danger line is at 8 feet.

#### TOPEKA, KANSAS.

Topeka, Kans. River observations began August 1, 1904. Is on the Kansas River, 87 miles from its mouth at Kansas City, Mo. The width of the river at average low water is 500 feet. The drainage area above the station is 54,720 square miles.

The river gage, which belongs to the Weather Bureau, is a chain and weight gage of the United States Geological Survey pattern, is located on the Melan arch bridge over the river at Kansas avenue. The gage box is on the east side of the bridge, 12 feet north of the center of the south span.

B. M., cross cut in coping, in line with down spout of gage, is 35.6 feet above zero of the gage and 906.7 feet above mean sea level. City datum is 16.5 feet above zero of the gage, and 887.6 feet above mean sea level.

Graduation extends from 1 foot below to 13.5 feet above zero, but can be extended indefinitely. Highest water was 32.7 feet on May 30, 1903; lowest, unknown. Danger line is at 21 feet.

#### TOWANDA, PENNSYLVANIA.

Towanda, Pa. Established October 1, 1892. Is on the North Branch of the Susquehanna River, 139 miles from its mouth, and 79 miles above Wilkes-Barre, Pa. The width of the river at average low water is 800 feet. The drainage area above the station is 9,208 square miles.

The river gage, which belongs to the Weather Bureau, is located on the south end of the west face of the first pier from the Towanda side of the county wagon bridge over the Susquehanna River, and is made of one-half by 12 inch iron.

Top of rail in front of Lehigh Valley Railroad depot is 41.3 feet above zero of the gage, and 734.7 feet above mean sea level.

A bolt fastening gage to pier is at the 23.7-foot mark.

Graduation extends from zero to 25 feet above. Highest water was 29 feet in March, 1869; lowest, -0.1 foot, in October, 1895. Danger line is at 16 feet.



## TOWNSEND, MONTANA.

Townsend, Mont. Established July 1, 1902. Is on the Missouri River, 2,504 miles from its mouth and 219 miles above Fort Benton, Mont. The width of the river at average low water is 400 feet. The drainage area above the station is 14,500 square miles.

The river gage, which belonged to the Missouri River Commission, is the standard wire-cable gage of that body, and is located on a county highway bridge, about 300 feet below the Northern Pacific Railway bridge over the Missouri River, near Townsend, Mont.

B. M. 10, Townsend, is on right bank of Missouri River, about one-half mile north of Townsend railroad station, about one-half mile from river, measured in a straight line to track, and about three-fourths of a mile south of railroad bridge over the Missouri River. It is about 60 feet west of a point on the track, 30 feet north of railroad bridge No. 392, about 7 feet west of the railroad fence, and is marked by a bench-mark stone and pipe. Elevation above zero of the gage, 96 feet; above mean sea level, 3,809.8 feet.

Graduation extends from 1 foot below zero to as far above as may be necessary. Highest water of record was 10.7 feet on June 3-5, 1894; lowest, 3 feet, on September 3, 1901. Danger line is at 11 feet.

## TRENTON, NEW JERSEY.

Trenton, N. J. Established August 1, 1904. Is on the Delaware River, 92 miles from its mouth and 50 miles below Phillipsburg, N. J. The width of the river at average low water is 800 feet. The drainage area above the station is 6,950 square miles.

The river gage, which belongs to the Weather Bureau, is a chain and weight gage of the United States Geological Survey pattern and is located on the downstream side, between the New Jersey abutment and the first pier of the steel highway bridge of the New Jersey and Pennsylvania Traction Company over the Delaware River.

Top of guard rail on upstream side of bridge, on which gage is located, is 34.8 feet above zero of the gage, and 41.8 feet above mean sea level. Top side of outer end of intake of city water pipe on lower side of bridge on which gage is located corresponds to zero of the gage.

Graduation extends from zero to 13 feet above and can be extended indefinitely. Highest water was 27 feet on March 4, 1904; lowest, 0.0, date unknown. Danger line is at 18 feet.

## TRENTON FALLS, NEW YORK.

Trenton Falls, N. Y. Established February 21, 1903. Is on West Canada Creek, 25 miles from its junction with the Mohawk River. The width of the river at average low water is 200 feet. The drainage area above the station is 375 square miles.

The river gage, which belongs to the Weather Bureau, is located near a clump of cedar trees in the eddy below the power house of the U. G. and E. Co., Trenton Falls, N. Y. It is made of 1½ by 6 inch pine timber, painted white, with black graduations, and is screwed to a 3 by 6 inch timber that is bolted to a rock.

Copper bolt in root of tree near gage is 10.7 feet above zero of gage, and 762 feet above mean sea level.

Graduation extends from zero to 14 feet above. Danger line is at 8 feet.

## TRIBESHILL, NEW YORK.

Tribeshill, N. Y. Established May 1, 1904. Is on the Mohawk River, at the mouth of Schoharie Creek, 42 miles from the mouth of the Mohawk River, and 23 miles above Schenectady, N. Y. The width of the river at average low water is 530 feet. The drainage area above the station is 3,094 square miles, of which 947 miles belong to Schoharie Creek.

The river gage, which belongs to the Weather Bureau, is attached to the masonry abutment of the bridge over the Mohawk River at Tribeshill. It is made of 1½ by 6 inch pine timber, painted white, with black graduations. Zero of gage is placed at low-water mark of the river, and is 270.2 feet above mean sea level.

Graduations extend from zero to 12 feet above. Danger line is at 12 feet.

#### TROUT RUN, PENNSYLVANIA.

Trout Run, Pa. Is on Lycoming Creek, 12 miles from its mouth, and 15 miles above Williamsport, Pa. The drainage area above the station is 213 square miles.

The river gage, which belongs to the Northern Central Railway, is attached to the stone abutment of the steel highway bridge over Lycoming Creek. It is made of 1 by 10 inch timber, and is fastened to wedges driven between the stones of the abutment. Graduations consist of black lines on a white ground, and are in feet only.

Bench mark, on west corner of north abutment of Northern Central Railway bridge No. 8, is 12.2 feet above zero of the gage, and 577.7 feet above mean sea level.

Graduation extends from zero to 13 feet above.

#### TROY, NEW YORK.

Troy, N. Y. Established February 21, 1903. Is on the Hudson River, 154 miles from its mouth and 7 miles above Albany, N. Y. It is at the head of tidewater in the Hudson River. The width of the river at average low water is 1,100 feet. The drainage area above the station is 8,095 square miles.

The river gage, which belongs to the Weather Bureau, is attached to the State dock, near sloop lock on the State dam at Troy. It is made of 1½ by 6 inch pine timber, painted white, with black graduations.

⊕ cut in dock near sloop lock of State dam is 18.1 feet above mean low water of 1876, which corresponds with the zero of the gage, and 20.4 feet above mean sea level.

Graduation extends from zero to 12 feet above. Danger line is at 14 feet.

#### TUALITIN, OREGON.

Tualitin, Oreg. Established April 16, 1904. Is on the Tualitin River, 6 miles from its mouth and 22 miles above Portland, Oreg., on the Willamette River. The width of the river at average low water is 140 feet. The drainage area above the station is 587 square miles.

The river gage, which belongs to the Weather Bureau, is attached to the braces of the west side of the east pier of the Southern Pacific Railroad bridge, about 450 feet east of the depot. The pier is about 15 feet from the shore, and is made of iron, filled with concrete. The gage is made of 2 by 8 inch fir, and is painted white, with graduations cut into the wood and painted black.

Top of rail in front of Southern Pacific Railroad depot is 17 feet above zero of the gage and 154 feet above mean sea level. Top of rail on bridge above gage is 18 feet above zero of the gage, and 155 feet above mean sea level.

Graduation extends from 1 foot below to 30 feet above zero. Highest water was 19 feet on February 5, 1890; lowest, 0.0, at various times in July, August, and September, 1904. Danger line is at 15 feet.

#### TULSA, INDIAN TERRITORY.

Tulsa, Ind. T. Established September 1, 1904. Is on the Arkansas River, 551 miles from its mouth and 86 miles above Webbers Falls, Ind. T. The width of the river at average low

water is 400 feet. The drainage area above the station is 71,048 square miles, of which 15,747 miles belong to the Cimarron River watershed.

The river gage, which belongs to the Weather Bureau, is a chain and weight gage of the United States Geological Survey pattern, and is fastened to a floor joist on the upstream side of the Commercial Bridge Company's highway bridge, three-fourths of a mile south of the town.

Graduation extends from zero to as far above as may be necessary. Highest water was 16 feet, date unknown; lowest, 1.1 feet, date unknown. Danger line is at 16 feet.

#### TUSCALOOSA, ALABAMA.

Tuscaloosa, Ala. Established November 1, 1890. Is on the Black Warrior River 90 miles above its junction with the Tombigbee at Demopolis, Ala. The width of the river at average low water is 280 feet. The drainage area above the station is 4,900 square miles.

The river gage, which belongs to the United States Engineer Corps, is secured to the river bank, about three fourths of a mile from the center of the town and one-fourth of a mile above the Mobile and Ohio Railroad bridge. It is made of 2-inch pine planking, with graduations of copper tacks and notches cut into the wood. There is also a vertical iron gage on the downstream side of the second pier, from the left bank, of the iron highway bridge.

Top of rail in front of Cincinnati, New Orleans and Texas Pacific Railway depot is 89.4 feet above zero of the gage, and 176.8 feet above mean sea level. Bench mark on willow tree, 10 feet west of gage, is 10.5 feet above zero of the gage, and 97.9 feet above mean sea level.

Graduation extends from zero to 60 feet above. Highest water was 65 feet on April 18, 1900; lowest, -1.9 feet on October 6, 9-21, 1897. Danger line is at 43 feet.

#### UMATILLA, OREGON.

Umatilla, Oreg. Established February 1, 1892. Is on the Columbia River, 270 miles from its mouth, and 104 miles above The Dalles, Oreg. The width of the river at average low water is 1,650 feet. The drainage area above the station is 201,517 square miles.

The river gage, which belongs to the Weather Bureau, is in two sections. The first section (5 to 24.2 feet) is located at the foot of F street, about 1,200 feet north of the depot of the Oregon Railroad and Navigation Company. It is made of 2 by 12 inch fir, and is attached to 3 by 6 inch stakes driven into the ground. The second section (14.5 to 35.5 feet) is fastened to the middle pile of the false work near the east end of the Oregon Railroad and Navigation Company's bridge across the Umatilla River near its mouth, and is made of 2 by 12 inch fir. Graduations on both sections are shown by iron tacks.

Zero of the gage is low-water mark of 1874. United States Geological Survey bench mark, 175 feet west of Oregon Railroad and Navigation Company's depot, and 25 feet north of main track, is 49.8 feet above zero of the gage, and 294 feet above mean sea level. Top of rail on track just above vertical section of gage is 48.4 feet above zero of the gage, and 292.6 feet above mean sea level.

Graduation extends from 5 to 35.5 feet above zero. Highest water was 34.5 feet on June 5, 1894; lowest, -3.4 feet on November 30, 1901. Danger line is at 25 feet.

#### UPPER MUSCLE SHOALS, ALABAMA.

Upper Muscle Shoals, Ala. Is on the Tennessee River, 251 miles from its mouth, and 25 miles above Lower Muscle Shoals, Ala.

The river gage, which belongs to the United States Engineer Corps, is attached to a pier located on the longitudinal dam separating the canal from the river, opposite Miltons Bluff, Ala.

Originally a single gage of 6 by 6 inch timber was used, but it was found to be impossible to obtain correct readings when the water was running over the dam. A wooden frame was therefore attached to the gage, and a supplementary gage of seven-eighths by 2½ inch timber fastened to the frame 8 feet beyond the dam. Both are graduated alike, with markings cut into the wood and painted black, and either may be read at low water.

P. B. M. 43, on gage pier of canal wall or dam opposite Miltons Bluff, 1.2 miles above lock "A," on east side, 2.5 feet above top of wall of dam, in top of large center stone, being top of copper bolt leaded vertically, is 10.5 feet above zero of gage, and 534.4 feet above mean sea level.

Graduation extends from zero to 12.3 feet above. Highest water since 1896 was 12.8 feet on March 20, 1897; lowest, 0.2 foot on October 13-16, 1897.

#### UTICA, NEW YORK.

Utica, N. Y. Established February 21, 1903. Is on the Mohawk River, 98 miles from its mouth, and 20 miles above Little Falls, N. Y. The width of the river at average low water is 170 feet. The drainage area above the station is 524 square miles.

The river gage, which belongs to the United States Geological Survey, is attached to the outer pier of the Genesee street bridge over the Mohawk River at Utica, on the downstream side. It is made of 1½ by 6 inch cypress timber, and is graduated with brass figures and galvanized iron staples. A similar gage for low-water readings is attached to the north side of the same pier.

Southwest corner of doorsill, west side of building, east side of Genesee street, next north of Mohawk, River, is 17.7 feet above zero of the gage, and 413 feet above mean sea level. Danger line is at 6 feet.

#### VALLEY JUNCTION, TEXAS.

Valley Junction, Tex. Established September 1, 1904. Is on the Brazos River, 215 miles from its mouth and 75 miles above Hempstead, Tex. The width of the river at average low water is 150 feet. The drainage area above the station is 32,365 square miles.

The river gage, which belongs to the Weather Bureau, is a chain and weight gage of the United States Geological Survey pattern, and the gage box is bolted to the guard rail of the International and Great Northern Railroad bridge over the Brazos River.

Top of rail on bridge where gage is located is 62.2 feet above zero of the gage, and 291 feet above mean sea level.

Graduation extends from 2 feet below to 12.5 feet above zero, and can be extended indefinitely. Highest water was 39.6 feet on July 5, 1898; lowest, unknown. Danger line is at 40 feet.

#### VANCOUVER, WASHINGTON.

Vancouver, Wash. Is on the Columbia River, 75 miles from its mouth and 5 miles above the junction of the Willamette. The distance above to Cascade Locks, Oreg., is 44 miles.

The river gage, which belongs to the United States War Department, is located on a pile in the Columbia River, near the southeast corner of the Government wharf, immediately in front of the United States commissary building, on the United States military reservation at Vancouver, Wash. It is an ordinary staff, 7 or 8 inches in width, painted white, with black graduations.

Bench mark, top of brass cap screwed into a 3-inch iron pipe, extending 8 or 9 inches above the ground, about 7 feet in front of watchman's small octagonal house, and about 92 feet in a southwesterly direction from southwest corner of commissary building, near Quartermaster's wharf, on United States military reservation at Vancouver, is 26.8 feet above zero of the gage, and 23.8 feet above mean sea level. Zero of gage is set at extreme low water at low tide in the Columbia River.

## VICKSBURG, MISSISSIPPI.

Vicksburg, Miss. River observations began May 18, 1873. Is on the Mississippi River, 474 miles from its mouth, and 101 miles above Natchez, Miss. The distance to New Orleans, La., is 366 miles. The width of the river at average low water is 2,400 feet. The drainage area above the station is 1,138,300 square miles.

The river gage, which belongs to the United States Engineer Corps, was reconstructed in November, 1901, and is attached to the guard piling of the Alabama and Vicksburg Transfer incline at Kleinston, Miss., about  $1\frac{1}{2}$  miles below Vicksburg. It is made of hard pine in eight vertical sections, with graduations burned into the wood. The lengths of the sections are as follows: —6 to 3 feet, 3 to 9 feet, 7 to 14 feet, 12 to 20 feet, 20 to 27 feet, 25 to 37 feet, 36 to 42 feet, and 40 to 54 feet.

Bench mark,  $1\frac{1}{4}$ , top of marking stone at Kleinston, 361 feet from river bank, 295 feet east of sawmill, 184 feet east of narrow-gage railroad, 197 feet north of railroad running down to cotton sheds, and on line of broken levee extending back to high ground, 5,135 feet above oil mill, and 3,865 feet below compress, is 42.3 feet above zero of the gage, and 88.1 feet above mean sea level.

B. M. B. (Ewens, 1898), cross on lower granite capstone of lower end of west pier of trestle of the Alabama and Vicksburg Railway Company, near Kleinston. Trestle is over main roadway to Kleinston, and on spur track leading to furniture factory. Elevation above zero of the gage, 45.7 feet; above mean sea level, 91.5 feet.

Graduation extends from 6 feet below to 54 feet above zero. Highest water was 52.5 feet on April 16, 1897; lowest, —6.3 feet on November 13 and 14, 1895. Danger line is at 45 feet.

## VICTORIA, TEXAS.

Victoria, Tex. Established September 1, 1904. Is on the Guadalupe River, 35 miles from its mouth. The width of the river at average low water is 125 feet. The drainage area above the station is 5,244 square miles.

The river gage, which belongs to the Weather Bureau, is a chain and weight gage of the United States Geological Survey pattern, and is fastened to the guard rail of the Southern Pacific Railroad bridge.

Bench mark, on cement-covered brick pier of Southern Pacific Railroad bridge, is 27.2 feet above zero of the gage, and 62.8 feet above mean sea level.

Graduation extends from 2 feet below to 30 feet above zero. Highest water of record was 22.4 feet, in July, 1903; lowest, 1.3 feet, on November 13 and 14, 1904. Danger line is at 16 feet.

## VIENNA, ALABAMA.

Vienna, Ala. Established November 10, 1904. Is on the Tombigbee River, 233 miles from its mouth and 78 miles above Demopolis, Ala. The width of the river at average low water is 210 feet. The drainage area above the station is 13,158 square miles.

The river gage, which belongs to the Weather Bureau, is located on the left bank of the river, and is in two inclined sections. The first section (—1 to 18 feet) is embedded for  $4\frac{1}{2}$  inches in the blue rock of the bank; the second section (18 to 54 feet) is fastened to posts driven into the ground, 50 feet southeast of William Peebles's cotton-seed house. The entire gage is made of 6 by 6 inch pine timber, and is about 240 feet in length. The upper surface is painted white, and has an iron strap, one-fourth by 2 inches, fastened to the upstream side. Graduations for even feet are shown by figures burned into the wood and painted black. Intermediate graduations are cut into the iron strap.

Upper surface of sill of William Peebles's iron warehouse, at southeast corner, about 100 feet from upper end of gage, is 60.5 feet above zero of the gage, and 148 feet above mean sea level.

Graduation extends from 1 foot below to 54 feet above zero. Highest water was 52 feet on April 9, 1902; lowest, -0.3 foot, in November, 1904. Danger line is at 42 feet.

#### VINCENNES, INDIANA.

Vincennes, Ind. Established November 1, 1904. Is on the Wabash River, 103 miles from its mouth and 28 miles above Mount Carmel, Ill. The width of the river at average low water is 500 feet. The drainage area above the station is 12,725 square miles.

The river gage, which belongs to the Weather Bureau, is in three sections. The first section (0 to 3.1 feet) is made of 2 by 10 inch white-oak timber and is inclined against the downstream side of the pier at the east end of the highway drawbridge at Main street. Graduations are painted on its face. The second section (3.1 to 23.6 feet) is painted on the downstream side of the same pier and just over the first section. The third section (0 to 12 feet) is an extra section, and is attached to the east side of the breakwater of the draw on the downstream side. It is made of 1½ by 6 inch white oak with painted graduations.

B. M., square, □, cut in stone ledge or water table, northwest front of court-house, 3.9 feet above top surface of foundation, and marked "A3, B. M., U. S. C. & G. S., 1882," is 35.6 feet above zero of the gage, and 434 feet above mean sea level. Top of easternmost stone of United States Coast and Geodetic Survey astronomical observatory, court-house grounds, is 32.6 feet above zero of the gage, and 431 feet above mean sea level. Top of rail in front of Baltimore and Ohio Southwestern Railroad depot is 36.6 feet above zero of the gage, and 435 feet above mean sea level.

Graduation extends from zero to 23.6 feet above. Highest water of record was 25 feet on February 22, 1867; lowest, -0.1 foot, date unknown. Danger line is at 15 feet.

#### WACO, TEXAS.

Waco, Tex. Established August 9, 1900. Is on the Brazos River, 285 miles from its mouth and 70 miles above Valley Junction, Tex. The width of the river at average low water is 80 feet. The drainage area above the station is 23,419 square miles.

A river gage was placed by the Weather Bureau on a pier of the St. Louis and Southwestern Railway bridge. It was painted on the southeast part of the pier nearest the center of the river, but the location proving unsatisfactory the United States Geological Survey gage was used on and after May 22, 1902. This gage is in two sections. The first (0 to 4.5 feet) is inclined, and is located along the sloping bank of the river at the southwest end of the downstream side of the county, or suspension bridge, over the Brazos river at Waco; it is 16 feet in length, and is made of 1 by 3 inch bar iron, embedded in cement in the sloping limestone of the bank and flush with the surface. Graduations are painted on the iron. The second section, which is used when the stages are above 4.5 feet, is the standard chain and weight gage of the United States Geological Survey, and is located on the suspension bridge above mentioned.

Top of rail in front of St. Louis and Southwestern Railway depot is 39.1 feet above zero of the gage, and 410 feet above mean sea level. Lowest water table on southwest pier, downstream side, county, or suspension bridge, marked, "U. S. G. S. 44.33 B. M." is 44.3 feet above zero of the gage, and 415.2 feet above mean sea level.

Graduation extends from zero to as far above as may be necessary. Highest water of record was 35.6 feet on May 28, 1885; lowest since establishment of station, 2 feet, on March 8-10, 1902. Danger line is at 22 feet.

## WARFIELD, KENTUCKY.

Warfield, Ky. Established November 15, 1901. Is on the Tug Fork of the Big Sandy River, 35 miles above its mouth at Louisa, Ky.

The river gage, which belongs to the United States Engineer Corps, is attached to a sycamore stump near the edge of the river. The stump is 13 feet in height.

Bench mark, No. 19, in yard of Mr. J. D. Barrett, is an iron pipe with cap on top. Top of cap is 49.9 feet above zero of the gage, and 625.4 feet above mean sea level.

Graduation extends from zero to 10 feet above. Highest water was 38 feet, date unknown; lowest, 0.2 foot, date unknown. Danger line is at about 40 feet.

Station was discontinued on February 14, 1902.

## WARREN, PENNSYLVANIA.

Warren, Pa. Established in November, 1884. Is on the Allegheny River, at the junction of Conewango Creek, 54 miles above Oil City and 177 miles from the mouth of the river. The width of the river at average low water is 450 feet. The drainage area above the station is 3,060 square miles. Conewango Creek drains an area of about 960 square miles, including Chautauqua Lake.

The river gage, which belongs to the United States Engineer Corps, is located on southwest corner of the north stone abutment of the suspension bridge over the Allegheny River at the foot of Bridge street. It is made of 2 by 12 inch timber, is spiked to the abutment, and has black graduations on a white ground.

Top of rail in front of Pennsylvania Railroad depot is 52 feet above zero of the gage, and 1,189 feet above mean sea level.

Graduation extends from 1 foot below to 17.6 feet above zero. Highest water was 17.4 feet in March, 1865; lowest, -1.1 feet, on September 23 and 24, 1904. Danger line is at 14 feet.

## WARRENSBURG, NEW YORK.

Warrensburg, N. Y. Established February 21, 1903. Is on Schroon River, 3 miles from its mouth. The width of the river at average low water is 204 feet. The drainage area above the station is 562 square miles.

The river gage, which belongs to the Weather Bureau, is attached to a stone-filled timber pier 40 feet from the south shore of the river, or about one-third the distance across, and about 50 feet above crest of the A. C. Emerson & Co.'s dam. It is made of 1½ by 6 inch pine timber and is painted white, with black graduations.

Graduation extends from zero to 8 feet above. Danger line is at 6 feet.

## WARSAW, ILLINOIS.

Warsaw, Ill. Reestablished August 1, 1904, after having been closed since June 30, 1899. Is on the Mississippi River, 1,458 miles from its mouth, and 56 miles above Hannibal, Mo. The width of the river at average low water is 3,720 feet. The drainage area above the station is 126,700 square miles.

The river gage, which belongs to the Weather Bureau, is a new one, and is in two sections. The first section (0 to 10 feet) is inclined, and is embedded in the river bank directly north of the warehouse of the Diamond Jo Packet Company. It is made of 6 by 6 inch pine timber, and is bolted to fir posts placed 6 feet apart and driven 6 feet into the ground. The top surface is

painted white, and on the upstream edge is screwed a strip of one-half by 2 inch wrought iron, into which the graduations for tenths of feet are cut. Figures for even feet are marked on the wood face. The second section (9 to 22 feet) is vertical, and is attached to the bridge piling north of the Warsaw Mills. It is made of 2 by 12 inch pine timber, and is painted white, with graduations cut into the wood and painted black.

Cross cut in sill of blind window, near north end of west face of J. W. Barnes's brick warehouse (now property of Warsaw Milling Company), is 25.9 feet above zero of the gage, and 501 feet above mean sea level.

Graduation extends from zero to 22 feet above. Highest water was 22.1 feet on May 18, 1888; lowest, 0.0, date, unknown. Danger line is at 18 feet.

#### WASHINGTON, DISTRICT OF COLUMBIA.

Washington, D. C. Is on the Potomac River, 110 miles from its mouth. The river is 2,380 feet in width at the Long Bridge. The drainage area above the station is 11,600 square miles.

The standard Weather Bureau brass gage was stolen in April, 1901, and was replaced on May 1, 1901, by an oak gage made of 1½ by 12 inch timber, painted white, with graduations burned into the wood and painted black. The location remains the same—north wall of an angle in stone dock of Washington Gas Company, at Twenty-seventh and G streets NW.

Bench mark, spike in dock on which gage is placed, a few inches south of head of gage, is 9.1 feet above zero of the gage, which is mean low tide of the Potomac River, and 7.9 feet above mean sea level. Bench mark on west end of doorsill of gas office, northeast corner of Twenty-sixth and G streets NW., is 34.4 feet above zero of the gage, and 33.2 feet above mean sea level. City directrix is 33.9 feet above mean sea level.

Comparison can most readily be had with other gages in the District by referring to height above mean low tide, which is the zero point of all.

Graduation extends from 0.5 foot to 8.7 feet above zero. Highest water known, that of June 2, 1889, 10 a. m., at the sewer canal, foot of Seventeenth street, was 13.3 feet. The water remained within 3 feet of the highest stage for twenty-four hours, and reached to the store doors on the north side of Pennsylvania avenue, between Ninth and Tenth streets. At Long Bridge the stage of water was 12.7 feet; at Aqueduct Bridge, 19.5 feet; and at Chain Bridge, 43.3 feet. Danger line is at 8 feet.

#### WATERFORD, CALIFORNIA.

Waterford, Cal. Established January 8, 1896. Is on the Tuolumne River, 31 miles from its mouth. The drainage area above the station is 1,687 square miles.

The river gage, which belongs to the Weather Bureau, is a plank with brass graduations, and is attached to the central stone and wood pier of the Southern Pacific Railroad bridge over the Tuolumne River.

Railroad track is 95 feet above zero of the gage, and 168 feet above mean sea level. Bench mark, center of north end of cap of pier, is 90 feet above zero of the gage, and 163 feet above mean sea level. Zero of the gage is low-water mark. Danger line is at 16 feet.

#### WEBBERS FALLS, INDIAN TERRITORY.

Webbers Falls, Ind. T. Established July 1, 1897. Is on the Arkansas River, 465 miles from its mouth, and 62 miles above Fort Smith, Ark. The width of the river at average low water is 1,200 feet, and at bank-full stage, 4,500 feet. The drainage area above the station is 89,700 square miles.



The river gage, which belongs to the Weather Bureau, is located in a slough at the rear of Blackstone & Ellington's store. It is made of 3 by 10 inch planking, with a 2-inch iron strap on the top, and is in two sections. The first section (1 to 15 feet) is inclined, and is bolted to timbers driven into the bank; the second section (15 to 30 feet) is vertical, and is bolted to boards spiked to a tree. Graduations are shown by copper tacks.

Nail driven in side of Gibson's store, 6 inches from east corner and 7 inches above foundation, is 35.2 feet above zero of the gage.

Graduation extends from 1 to 30 feet above zero. Highest water of record was 28.8 feet on June 6, 1904; lowest, 1.3 feet, on October 13-15 and 19-25, 1904. Danger line is at 23 feet.

#### WEISER, IDAHO.

Weiser, Idaho. Established September 6, 1894. Is on the Snake River, 306 miles from its mouth, and 162 miles above Lewiston, Idaho. The width of the river at average low water is 700 feet. The drainage area above the station is 74,906 square miles, of which 1,670 square miles belong to the Weiser River.

A new river gage was installed by the Weather Bureau in September, 1902. It is located five telegraph poles west of the Oregon Short Line Railroad depot, thence south at right angles to the river bank. It is set in the river bank, anchored to stakes driven into the ground, and is made of fir, with painted graduations.

Figure 3 on the gage is 26.8 feet below center of iron doorsill at main entrance to the Hotel Weiser. Top of main track south of water tank is 27.5 feet above zero of the gage, and 2,128 feet above mean sea level.

Graduation extends from 2 to 21 feet above zero. Highest water was 26.5 feet on June 5, 1894; lowest, 0.0, on October 31, 1894. Danger line is at 20 feet.

#### WELDON, NORTH CAROLINA.

Weldon, N. C. Established November 1, 1890. Is on the Roanoke River, 129 miles above Albemarle Sound, into which it empties. The width of the river at average low water is 450 feet. The drainage area above the station is 8,180 square miles.

The river gage, which belongs to the Weather Bureau, is located on the Seaboard Air Line bridge over the Roanoke River. It is a wire cable gage, and graduations are painted on the west end of the guard rail of the bridge.

Top of rail in front of Seaboard Air Line depot is 77 feet above mean sea level.

Graduation extends from zero to 55 feet above. Highest water was 60.3 feet on November 26, 1877; lowest, 6.8 feet, on January 2, 1900. Danger line is at 30 feet.

#### WELLS RIVER, VERMONT.

Wells River, Vt. Established November 1, 1902. Is on the Connecticut River, 255 miles from its mouth, and 46 miles above Whiteriver Junction, Vt. The width of the river at average low water is 230 feet. The drainage area above the station is 3,135 square miles.

The river gage, which belongs to the Weather Bureau, is located on the south side of the abutment on the Vermont side of the Boston and Maine Railroad bridge over the Connecticut River, and consists of black graduations painted on a 12-inch white surface.

Zero of gage corresponds to bed of river in center of channel.

Top of rail on Boston and Maine Railroad bridge over the Connecticut River at Wells River is 47 feet above zero of the gage, and 467 feet above mean sea level.

Graduation extends from 23 to 37 feet above zero.

## WENATCHEE, WASHINGTON.

Wenatchee, Wash. Established September 6, 1894. Is on the Columbia River, at the mouth of the Wenatchee River, 473 miles from the mouth of the Columbia and 163 miles above Pasco, Wash. The width of the river at average low water is 900 feet. The drainage area above the station is 79,064 square miles, of which 1,550 square miles belong to the Wenatchee River.

The river gage, which belongs to the Weather Bureau, is located on the bank of the river, directly opposite the Great Northern Railway depot, and consists of one inclined and six vertical sections. The inclined section (0 to 25 feet) is made of 2 by 10 inch fir, sunk edgewise in the ground, and buried in sand and rocks. It is painted white, with graduations of double-pointed iron tacks. Sections two, three, four, five, and six are each 5 feet in length (25 to 50 feet), and consist of 2 by 8 inch fir planks, set 3 feet in the ground, and braced with 2 by 8 inch braces. Section seven (50 to 62 feet) is similar in construction to the remaining vertical sections, and the whole six are painted white, with black graduations.

B. M., United States Geological Survey, under Great Northern Railway depot platform, a few feet north of depot, is 56.5 feet above zero of the gage, and 639 feet above mean sea level.

Graduation extends from zero to 62 feet above. Highest water was 58 feet on June 7, 1894; lowest, 0.0, on January 14, 1891. Danger line is at 40 feet.

## WEST NEWTON, PENNSYLVANIA.

West Newton, Pa. Established November 1, 1890. Is on the Youghiogheny River, 15 miles above its junction with the Monongahela. The distance to Pittsburg, at the mouth of the Monongahela, is 31 miles. The width of the river at average low water is 150 feet. The drainage area above the station is 1,550 square miles.

The river gage is on the west side of the river at the end of the bridge, and is constructed of wood with an iron strap on its face, into which the graduations are cut. The lower 18 feet of the gage is inclined at an angle of  $45^{\circ}$  to the abutment; the upper part is vertical.

Top of rail at Baltimore and Ohio Railroad depot is 36.5 feet above zero of the gage, and 783 feet above mean sea level.

Graduation extends from 1 foot below to 23 feet above zero. Highest water was 22 feet on February 23, 1897, February 28, 1902, and January 22, 1904; lowest, -0.3 foot, on September 14, 1892. Danger line is at 23 feet.

## WESTON, WEST VIRGINIA.

Weston, W. Va. Established November 1, 1884. Is on the west fork of the Monongahela River, 39 miles above its confluence with the Tygarts Valley River, and 161 miles from the mouth of the Monongahela River. The distance to Fairmont, on the Monongahela, is 42 miles. The width of the river at average low water is 69 feet. The drainage area above the station is 140 square miles.

The river gage, which belongs to the Weather Bureau, is painted on the abutment of the county bridge leading from Second street to the depot, and consists of white graduations on a black ground.

Top of rail in front of the Weston depot is 27 feet above zero of the gage, and 918 feet above mean sea level. Top of abutment on which gage is located is 25.4 feet above zero of the gage, and 916.4 feet above mean sea level.

Graduation extends from zero to 23 feet above. Highest water was 21 feet on October 13, 1890; lowest, -4 feet, in November and December, 1891. Danger line is at 18 feet.

## WEST POINT, GEORGIA.

West Point, Ga. Established March 1, 1899. Is on the Chattahoochee River, 239 miles from its mouth and 99 miles above Columbus, Ga. The width of the river at average low water is 400 feet. The drainage area above the station is 3,300 square miles.

The river gage, which belongs to the United States Geological Survey, is a standard chain and weight gage of that Bureau, and is located on the downstream side of the Montgomery street highway bridge. The graduation rod is made of heart pine, with graduations of brass figures and copper tacks.

B. M., U. S. 38, Franklin and West Point survey (United States Engineers), on right bank of river, 340 feet upstream from highway bridge and 50 feet from edge of river, being raised point in center of cast-iron cap, 6 inches square, set in concrete, and approximately on a level with ground, is 15.7 feet above zero of the gage, and 570.9 feet above mean sea level.

Top of brick pier at west end of bridge on which gage is located, on downstream side, is 24 feet above zero of the gage, and 579.2 feet above mean sea level. Top of railroad track at west end of Atlanta and West Point Railroad bridge is 30 feet above zero of the gage, and 585.2 feet above mean sea level.

Graduation extends from zero to 30 feet above. Highest water was 25.6 feet in 1886; lowest, 0.8 foot, on September 12, 13, and 16-21, 1896. Danger line is at 20 feet.

## WETUMPKA, ALABAMA.

Wetumpka, Ala. Is on the Coosa River, 6 miles above its confluence with the Tallapoosa. The distance to Montgomery, Ala., on the Alabama River, is 21 miles. The width of the river at average low water is 450 feet. The drainage area above the station is 7,266 square miles.

The river gage, which belongs to the United States Engineer Corps, is made of 2 by 8 inch pine planking in three sections. The first section (-8 to 27 feet) is on the wall of Lock No. 31. The second section (27 to 40 feet), is attached to a tree on the bank. The third section (40 to 58 feet) is also attached to a tree. The entire gage is painted black, with graduations cut into the wood and painted white.

Top of rail in front of Louisville and Nashville Railroad depot is 12.6 feet above zero of the gage, and 185 feet above mean sea level.

Graduation extends from 8 feet below to 58 feet above zero. Highest water was 61.7 feet on April 1, 1886; lowest, -0.6 foot, on September 21, 1896, and October 10, 11, and 13, 1897. Danger line is at 45 feet.

## WHEELING, WEST VIRGINIA.

Wheeling, W. Va. Established May 1, 1882. Is on the Ohio River, 875 miles from its mouth and 90 miles above Parkersburg, W. Va. The width of the river at average low water is 600 feet. The drainage area above the station is 25,200 square miles.

The river gage, which belongs to the city of Wheeling, is located on the levee, 300 feet north of Twelfth street. It is made of sandstone, set flush with the surface of the levee, and is graduated in feet and quarter feet. An upright extension of the gage was provided by the Weather Bureau in August, 1902, consisting of a double wrought-iron pipe sunk 6 feet into the ground at the head of the gage proper and securely fastened by an iron band to the retaining wall of the Panhandle Railway. Graduations in feet and half feet are painted on the pipe.

Bench mark, high-water mark of February 7, 1884, cut in stone bottom of ogee on top of water table on southwest corner of custom-house, corner of Sixteenth and Market streets, is 53.1 feet above zero of the gage, and 663.7 feet above mean sea level.

Graduation on the stone gage extends from 3 to 41 and on the iron pipe from 41 to 54 feet above zero. Highest water was 53.1 feet on February 7, 1884; lowest, -0.3 foot, on August 27 and 28, 1893. Danger line is at 36 feet.

#### WHITECLIFFS, ARKANSAS.

Whitecliffs, Ark. Established October 15, 1904. Is on the Little River, 33 miles from its mouth and 35 miles above Fulton, Ark., on the Red River. The width of the river at average low water is 200 feet and at bank-full stage 400 feet. The drainage area above the station is 3,276 square miles.

The river gage, which belongs to the Weather Bureau, is located on the Whitecliffs side of the river, at the works of the Southwestern Portland Cement Company. It is painted on a water pipe and the adjacent cement base and wooden superstructure. The water pipe is 12 inches in diameter, is securely fastened, and extends at a slight angle to below lowest water.

Graduation extends on the pipe from zero to 14 and on the base and superstructure from 14 to 34 feet above zero. Highest water was about 29 feet, date unknown; lowest, about 0.0, date unknown. Danger line is at 20 feet.

#### WHITERIVER JUNCTION, VERMONT.

Whiteriver Junction, Vt. Established November 1, 1902. Is on the Connecticut River, 209 miles from its mouth and 39 miles above Bellows Falls, Vt. The width of the river at average low water is 540 feet. The drainage area above the station is 4,621 square miles.

The river gage, which belongs to the Weather Bureau, is painted on the southeast face of the first pier from the Whiteriver Junction side of the Boston and Maine Railroad bridge over the Connecticut River, and consists of black graduations on a 12-inch white background. Zero of gage corresponds with bed of river.

Top of capstone of pier, or the 26.1-foot mark of the gage, is 24.5 feet below top of rail on bridge. Top of rail on bridge over gage is 50.6 feet above zero of the gage, and 377 feet above mean sea level.

Graduation extends from zero to 26.1 feet above.

#### WICHITA, KANSAS.

Wichita, Kans. River observations began July 1, 1897. Is on the Arkansas River, 832 miles from its mouth and 281 miles above Tulsa, Ind. T. The width of the river at average low water is 70 feet. The drainage area above the station is 40,551 square miles.

The river gage, which belongs to the city of Wichita, is attached to the east side of the second pier from the east end of the Douglas avenue bridge. It is made of wood, painted white, with graduations of brass figures and black paint.

Top of rail at Douglas avenue crossing of the Atchison, Topeka and Santa Fe Railway is 8.3 feet above zero of the gage, and 1,293 feet above mean sea level. Cap to third piling of Douglas avenue street-car bridge is 12.5 feet above zero of the gage, and 1,297.2 feet above mean sea level.

Graduation extends from zero to 13 feet above. Highest water was 11 feet in 1877; lowest, -0.6 foot, on July 13 and 14, 1897. Danger line is at 10 feet.

#### WILKES-BARRE, PENNSYLVANIA.

Wilkes-Barre, Pa. Established November 1, 1890. Is on the North Branch of the Susquehanna River, 60 miles from its mouth and 37 miles above East Bloomsburg, Pa. The width of the river at average low water is 700 feet. The drainage area above the station is 11,470 square miles.

The river gage, which belongs to the United States Geological Survey, is located on the Market street bridge over the North Branch of the Susquehanna River, on the upstream side near the Wilkes-Barre end. It is the standard chain and weight gage of the Geological Survey. The scale board is placed along the outside of the guard rail.

Top of stone monument, Northampton and River streets, is 30.7 feet above zero of the gage, and 536 feet above mean sea level. Top of rail in front of the Lehigh Valley Railroad depot is 39.7 feet above zero of the gage, and 545 feet above mean sea level. Zero of old painted and brass gage on downstream side of first pier of bridge was 3 feet higher than that of the gage now in use.

Graduation extends from zero to 33 feet above. Highest water was 33.1 feet on March 17, 1865; lowest, 0.0 on September 24-27, 1900. Danger line is at 17 feet, at which stage the right bank of the river is overflowed in places.

The use of the United States Geological Survey gage began on May 1, 1902. The old painted and brass gage in use previous to that time was found to be incorrectly graduated, and with its zero mark so high that it was considerably above the surface of the water at low stages. Consequently to all stages previous to May 1, 1902, it will be necessary to apply the following corrections in order to reduce them to the standard of the gage now in use. The corrections have been applied to the highest and lowest stages given above. They include the errors due to incorrect graduation as well as the changes necessitated by the lowering of the zero point 3.3 feet. All the corrections must be added.

Stage.	Correction.	Stage.	Correction.	Stage.	Correction.
<i>Feet.</i>	<i>Feet.</i>	<i>Feet.</i>	<i>Feet.</i>	<i>Feet.</i>	<i>Feet.</i>
Zero.	3.3	12	3.7	23	4.1
1	3.3	13	3.8	24	4.1
2	3.4	14	3.8	25	4.2
3	3.4	15	3.8	26	4.2
4	3.4	16	3.9	27	4.3
5	3.5	17	3.9	28	4.3
6	3.5	18	3.9	29	4.3
7	3.5	19	4.0	30	4.4
8	3.6	20	4.0	31	4.4
9	3.6	21	4.0	32	4.4
10	3.7	22	4.1	33	4.5
11	3.7				

#### WILLIAMSON, WEST VIRGINIA.

Williamson, W. Va. Established November 1, 1901. Is on the Tug Fork of the Big Sandy River, and 56 miles from the latter. The width of the river at average low water is 200 feet. The drainage area above the station is 853 square miles.

The river gage, which belongs to the Weather Bureau, is located on the Kentucky shore of the river, opposite the foot of Pike street, and is made of 2 by 10 inch oak timber, attached to a ledge of shale, or hard slate, by drift-bolts driven through the timber into hard plugs let into the ledge.

It is painted black, with white graduations.

B. M. 30, iron pipe sunk in the jail yard, is 42 feet above zero of the gage, and 662 feet above mean sea level.

Graduation extends from zero to 39.8 feet above. Danger line is approximately at 25 or 30 feet.

## WILLIAMSPORT, PENNSYLVANIA.

Williamsport, Pa. Established as a special river station of the Weather Bureau on May 1, 1902. Is on the West Branch of the Susquehanna River, 39 miles above its junction with the North Branch. The width of the river at average low water is 900 feet. The drainage area above the station is 5,337 square miles.

The river gage in use previous to May 1, 1902, belongs to Lycoming County, and was painted on the northeast corner of the first pier from the Williamsport side of the Lycoming County bridge over the West Branch of the Susquehanna River. It consists of white graduations in feet and inches on a black ground. Above the 23.5-foot stage water covers the approach to the bridge, and readings were then taken from a temporary gage, which is a stake attached to the office of the engineer of the Philadelphia and Reading Railway Company, a few feet below the bridge approach.

On May 1, 1902, the use of the United States Geological Survey chain and weight gage was commenced. This gage is located on the upper side of the Market street bridge, about halfway between the abutment and the first pier. The distance from the pulley of the gage box to low-water, or the zero mark is 39.3 feet.

Zero of the gage is the datum for city levels, and has been in use since 1876.

United States Geological Survey bench mark, aluminum plate on west side of City Hall, is 31.1 feet above zero of the gage and 527.5 feet above mean sea level. Bench mark "X," cut in southwest corner of north abutment of Market street bridge, is 10 feet above zero of the gage, and 506.4 feet above mean sea level.

Graduation extends from zero to 30 feet above. Highest water was 32.4 feet on June 1, 1889; lowest, -0.2 foot, on July 27, September 24-26, and October 31, 1895. Danger line is at 20 feet.

## WINSLOW, MAINE.

Winslow, Me. Established November 1, 1902. Is on the Kennebec River, 46 miles from its mouth and 20 miles above Augusta, Me. The width of the river at average low water is 625 feet. The drainage area above the station is 5,470 square miles, of which 1,060 square miles are comprised in the watershed of the Sebasticook River.

The river gage, which belongs to the Weather Bureau, is located on the north side of the log sluice, about 10 feet from shore and 150 feet above the gatehouse of the Hollingsworth and Whitney Paper Company. It is made of 2 by 12 inch pine timber, bolted to the log sluice, and is painted white, with graduations burned into the wood and painted black. The zero mark on the gage corresponds to the crest of the fixed portion of the dam of the Hollingsworth and Whitney Paper Company. A spike is driven into the log sluice directly opposite the 9-foot mark on the gage.

Graduation extends from 19 to 34 feet above zero, the 19.5-foot mark corresponding to the true zero, which is the basis of all Weather Bureau readings. Highest water since 1832 was 15.7 feet in December, 1901; lowest since establishment of station, 0.5 foot, on February 28, 1904.

## WOODBURY (THUNDER P. O.), GEORGIA.

Woodbury, Ga. Established June 1, 1900. Is on the Flint River, 227 miles from its mouth and 75 miles above Montezuma, Ga. The width of the river at average low water is 240 feet. The drainage area above the station is 988 square miles.

The river gage, which belongs to the United States Geological Survey, is located near the Macon and Birmingham Railway bridge, and is in two sections. The first section (0 to 10 feet)

is attached to a willow tree on the left bank of the river, about 300 feet above the bridge and 50 feet below Riggin's old ferry. The second section (10 to 15 feet) is fastened to a sweet-gum tree, 50 feet from the left bank and 150 feet upstream from the bridge. Both sections are made of 1 by 5 inch timber, painted white, with graduations of brass figures and copper tacks.

Copper plug set in solid rock on west side of river, about 100 feet from water and 100 feet upstream from a point opposite gage, is 16.2 feet above zero of the gage, and 675.8 feet above mean sea level.

Graduation extends from zero to 15 feet above. Highest water since establishment of station was 14 feet on February 28, 1902; lowest, -0.5 foot, on October 24, 1904. Danger line is at 10 feet.

#### YAZOO CITY, MISSISSIPPI.

Yazoo City, Miss. Established in 1885. Is on the Yazoo River, 80 miles above Vicksburg, Miss., which is a very short distance below the mouth of the Yazoo River. The width of the river at average low water is 200 feet. The drainage area above the station is 8,779 square miles.

A new river gage was installed by the Weather Bureau on September 20, 1901. It is made of 2 by 8 inch yellow pine, and is in two sections. The lower section (- 5.5 to 2.5 feet) is located on the pile-protecting work, 52.8 feet west, upstream, and 12.5 feet south from the round brick pier under the center of the highway bridge over the Yazoo River. The upper section (2.5 to 36 feet) is located on the pile-protecting work on the downstream side of the south rectangular brick pier, and 11.3 feet from the pier. Piles are made of sound cypress. Gage is painted white, with black graduations; division marks are chiseled, and the figures are burned into the wood.

P. B. M. 12, Yazoo City, copper bolt in stone underground, surmounted by iron pipe and cap, in north corner of county court-house yard, is 44.1 feet above zero of the gage, and 117.2 feet above mean sea level.

P. B. M. 13, Yazoo City, copper bolt in stone underground, surmounted by iron pipe and cap, in north corner of public-school yard, near Washington and Main streets, is 29.2 feet above zero of the gage, and 102.3 feet above mean sea level.

Graduation extends from 5.5 feet below to 36 feet above zero. Highest water was 36.5 feet in 1882; lowest, - 3 feet, on November 16-21, 26-30, 1904. Danger line is at 25 feet.

#### ZANESVILLE, OHIO.

Zanesville, Ohio. Established June 4, 1887. Is on the Muskingum River, 70 miles above Marietta, Ohio, at its mouth. The width of the river at average low water is 450 feet. The drainage area above the station is 6,474 square miles.

The river gage, which belongs to the United States Engineer Corps, is in two vertical sections. The first section (0 to 18 feet) is a cast-iron plate, 5 inches in width, attached to the lower buttress of the land wall of Lock No. 10. Graduations are cast into the plate and painted. The second section (18 to 29 feet) is a temporary wooden structure and is set outside the land wall of the canal. Above 29 feet measurements are made with a rule.

Top of upper miter sill of Lock No. 10 is 18.6 feet above zero of the gage, and 685.5 feet above mean sea level. Mark on canal retaining wall, on east side toward river, near upper lock gate of lower locks, is 33.1 feet above zero of the gage, and 700 feet above mean sea level.

Graduation extends from zero to 29 feet above. Highest water was 35.9 feet on March 24, 1898; lowest, 4.3 feet, on October 14, 20, and 21, 1895. Danger line is at 25 feet.

# ELEVATIONS OF ZEROS OF GAGES ABOVE MEAN SEA LEVEL (FEET).

Station.	Eleva- tion.	Station.	Eleva- tion.
Abbeville, Ga.....	163.8	Catlettsburg, Tenn.....	.....
Abilene, Kans.....	1,128.7	Cedar Rapids, Iowa.....	723.0
Alaga, Ala.....	77.3	Cedar Run, Pa.....	780.0
Albany, Ga.....	141.0	Celina, Tenn.....	<sup>a</sup> 494.0
Albany, N. Y.....	0.2	Charleston, Tenn.....	687.3
Albany, Oreg.....	171.0	Charleston, W. Va.....	554.4
Alexandria, La.....	44.2	Chatham, N. J.....	.....
Arkansas City, Ark.....	95.2	Chattanooga, Tenn.....	631.7
Arlington, Mo.....	661.8	Cheraw, S. C.....	50.0
Arthur City, Tex.....	363.1	Chester, Ill.....	341.1
Asheville, N. C.....	1,963.3	Chippewa Falls, Wis.....	806.6
Augusta, Ga.....	100.4	Cincinnati, Ohio.....	430.1
Austin, Tex.....	427.0	Circleville, Ohio.....	<sup>a</sup> 675.0
Bagnell, Mo.....	558.1	Clarendon, Ark.....	137.6
Bainbridge, Ga.....	52.8	Clarion, Pa.....	<sup>a</sup> 1,052.0
Ballinger, Tex.....	1,596.2	Clarksville, Tenn.....	328.0
Bangor, Me.....	.....	Clarkeville, Va.....	.....
Batesville, Ark.....	232.2	Clay Center, Kans.....	1,157.1
Baton Rouge, La.....	-0.4	Clearfield, Pa.....	1,094.8
Beardstown, Ill.....	420.2	Clinton, Iowa.....	566.3
Beattyville, Ky.....	.....	Clinton, Tenn.....	783.4
Beaumont, Tex.....	-1.0	Cohoes, N. Y.....	.....
Beaver Dam, Pa.....	655.9	Colgate, Cal.....	.....
Bellows Falls, Vt.....	283.0	Columbia, Miss.....	80.0
Beloit, Kans.....	.....	Columbia, S. C.....	119.4
Binghamton, N. Y.....	820.7	Columbia, Tenn.....	519.4
Bismarck, N. Dak.....	1,617.9	Columbia, Va.....	176.2
Black Rock, Ark.....	225.8	Columbus, Ga.....	.....
Blair, Nebr.....	989.0	Columbus, Miss.....	135.7
Blue Rapids, Kans.....	1,064.5	Columbus, Ohio.....	693.3
Bluff City, Tenn.....	1,368.6	Columbus, Tex.....	.....
Bonnars Ferry, Idaho.....	1,729.2	Colusa, Cal.....	.....
Boone, Iowa.....	863.6	Concord, N. H.....	.....
Boonville, Mo.....	566.1	Confluence, Pa.....	1,324.0
Booth, Tex.....	.....	Conway, S. C.....	25.0
Bowling Green, Ky.....	.....	Cordova, Ala.....	.....
Bridgeport, Ala.....	594.7	Corinth, N. Y.....	541.5
Brookville, Pa.....	1,181.0	Coshocton, Ohio.....	730.5
Buchanan, Va.....	781.0	Creston, W. Va.....	.....
Burnside, Ky.....	589.0	Cumberland, Md.....	602.2
Cairo, Ill.....	270.6	Dallas, Tex.....	365.5
Calhoun Falls, S. C.....	354.5	Dandridge, Tenn.....	.....
Calico Rock, Ark.....	326.8	Danville, Va.....	379.3
Calvin, Ind. T.....	.....	Dardanelle, Ark.....	.....
Camden, Ark.....	71.1	Davenport, Iowa.....	542.2
Camden, S. C.....	175.0	Davis Island Dam, Pa.....	690.3
Camden on Gauley, W. Va.....	.....	Dayton, Ohio.....	724.1
Canton, Ga.....	881.0	Defiance, Ohio.....	.....
Cape Girardeau, Mo.....	304.7	Demopolis, Ala.....	28.2
Carlton, Ga.....	384.5	Derry Station, Pa.....	.....
Carthage, Tenn.....	443.0	Des Moines, Iowa.....	783.0
Cascade Locks, Oreg.....	42.5	Dodge City, Kans.....	.....
Castleton, N. Y.....	-0.2	Donaldsonville, La.....	-1.0
Catlettsburg, Ky.....	487.3	Dublin, Ga.....	.....

<sup>a</sup> About.



## ELEVATIONS OF ZEROS OF GAGES.

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Station.	Elevation.	Station.	Elevation.
Dubuque, Iowa	585.4	Iola, Kans.	.....
Duncannon, Pa.	.....	Ionina, Mich.	612.7
East Bloomsburg, Pa.	.....	Iowa City, Iowa	640.4
Eaton Rapids, Mich.	858.2	Irwin, Pa.	.....
Edisto, S. C.	127.0	Jackson, Ky.	<sup>a</sup> 730.0
Effingham, S. C.	65.0	Jackson, Miss.	233.0
Ellwood Junction, Pa.	730.0	Jefferson, Oreg.	.....
Enterprise, Miss.	212.0	Johnsonville, Tenn.	323.1
Eufaula, Ala.	61.2	Johnstown, Pa.	1,147.8
Eugene, Oreg.	425.5	Kansas City, Mo.	717.2
Evansville, Ind.	329.1	Karthus, Pa.	833.9
Fairbluff, N. C.	59.0	Keating, Pa.	688.8
Fairmont, W. Va.	844.8	Keokuk, Iowa	477.8
Falmouth, Ky.	512.2	Kilbourn, Wis.	817.0
Farmers, Ky.	640.0	Kingston, Tenn.	713.9
Farrandsville, Pa.	.....	Kingstree, S. C.	37.0
Fayetteville, N. C.	<sup>a</sup> 110.0	Kiomache, Tex.	.....
Florence, Ala.	397.8	Knights Landing, Cal.	23.4
Folsom City, Cal.	100.0	Knoxville, Tenn.	805.4
Fort Benton, Mont.	2,616.6	Kopperl, Tex.	494.5
Fort Dodge, Iowa	984.3	La Crosse, Wis.	626.3
Fort Gibson, Ind. T.	525.0	Lamoure, N. Dak.	1,295.7
Fort Hunter, N. Y.	.....	Lansing, Mich.	809.9
Fort Smith, Ark.	378.8	Leadvale, Tenn.	.....
Frankfort, Ky.	464.8	Leclair, Iowa	562.9
Franklin Junction, N. H.	.....	Lewiston, Idaho	709.6
Fremont, Ohio	575.0	Liberty, Tex.	-2.2
Freeport, Pa.	741.0	Lindsborg, Kans.	.....
Fulton, Ark.	224.5	Little Falls, N. Y.	333.6
Gadsden, Ala.	473.7	Little Rock, Ark.	222.7
Galland, Iowa	496.7	Lockhaven, Pa.	548.4
Gaylordsville, Conn.	.....	Lock No. 4, Ala.	477.3
Glasgow, Mo.	590.0	Lock No. 4, Pa.	719.0
Glendive, Mont.	2,032.0	Logansport, La.	140.0
Glens Falls, N. Y.	259.5	Long Lake, Tex.	179.0
Glenville, W. Va.	<sup>a</sup> 696.0	Loudon, Tenn.	.....
Gonzales, Tex.	.....	Louisville, Ky.	399.6
Grafton, Ill.	403.9	Lower Muscle Shoals, Ala.	419.5
Grand Ledge, Mich.	779.4	Luxora, Ark.	217.7
Grand Rapids, Mich.	587.9	Lynchburg, Va.	494.7
Grand Rapids, Wis.	980.2	McGhee, Tenn.	763.9
Greensboro, Pa.	768.0	McMinnville, Oreg.	.....
Greenville, Miss.	87.8	Macon, Ga.	275.0
Greenwood, Miss.	92.5	Madison, Ind.	400.3
Guntersville, Ala.	529.2	Mahwah, N. J.	.....
Hamilton, Ohio	561.5	Manchester, N. H.	178.0
Hancock, N. Y. (East Branch)	.....	Manhattan, Kans.	934.0
Hancock, N. Y. (West Branch)	.....	Mankato, Minn.	746.8
Hannibal, Mo.	449.4	Marked Tree, Ark.	196.7
Harpers Ferry, W. Va.	244.1	Marshall, N. C.	.....
Harrisburg, Oreg.	.....	Marysville, Cal.	23.3
Harrisburg, Pa.	300.1	Mattawamkeag, Me.	133.2
Hartford, Conn.	0.0	Mauchchunk, Pa.	.....
Hattiesburg, Miss.	114.0	Maysville, Ky.	446.7
Havre, Mont.	2,461.3	Mechanicsville, N. Y.	65.0
Helena, Ark.	141.8	Melville, La.	-0.1
Hempstead, Tex.	120.7	Memphis, Tenn.	183.8
Hermann, Mo.	482.0	Merrill, Miss.	28.0
Herr's Island Dam, Pa.	.....	Mifflin, Pa.	408.8
Highbridge, Ky.	505.4	Milledgeville, Ga.	.....
Hinton, W. Va.	1,338.5	Millpoint, N. Y.	.....
Hollingsworth Ferry, Ga.	151.4	Milstead, Ala.	.....
Holyoke, Mass.	97.9	Monroe, La.	31.0
Hoosick Falls, N. Y.	.....	Montague, Me.	99.5
Huntingdon, Pa.	597.4	Montezuma, Ga.	257.4
Huntington, W. Va.	491.4	Montgomery, Ala.	103.7
Huron, S. Dak.	1,229.2	Moorhead, Minn.	860.9

<sup>a</sup> About.

# TABLE OF DANGER-LINE STAGES (FEET).

Station.	Danger line.	Station.	Danger line.
Abbeville, Ga.	11	Charleston, Tenn.	22
Abilene, Kans.	22	Charleston, W. Va.	30
Alaga, Ala.	25	Chatham, N. J.	7
Albany, Ga.	20	Chattanooga, Tenn.	33
Albany, N. Y.	12	Cheraw, S. C.	27
Albany, Oreg.	20	Chester, Ill.	30
Alexandria, La.	33	Chippewa Falls, Wis.	16
Arkansas City, Ark.	42	Cincinnati, Ohio	50
Arlington, Mo.	16	Circleville, Ohio.	7
Arthur City, Tex.	27	Clarendon, Ark.	30
Asheville, N. C.	6	Clarion, Pa.	10
Augusta, Ga.	32	Clarksville, Tenn.	42
Austin, Tex.	18	Clarksville, Va.	12
Bagnell, Mo.	28	Clay Center, Kans.	18
Bainbridge, Ga.	22	Clearfield, Pa.	8
Ballinger, Tex.	21	Clinton, Iowa.	16
Batesville, Ark.	18	Clinton, Tenn.	25
Baton Rouge, La.	35	Cohoes, N. Y.	5
Beardstown, Ill.	12	Colgate, Cal.	14
Beattyville, Ky.	30	Columbia, Miss.	14
Beaumont, Tex.	10	Columbia, S. C.	15
Beaver Dam, Pa.	27	Columbia, Tenn.	28
Bellows Falls, Vt.	12	Columbia, Va.	18
Beloit, Kans.	16	Columbus, Ga.	20
Binghamton, N. Y.	16	Columbus, Miss.	33
Bismarck, N. Dak.	14	Columbus, Ohio.	17
Blackrock, Ark.	12	Columbus, Tex.	24
Blair, Nebr.	15	Colusa, Cal.	25
Blue Rapids, Kans.	14	Confluence, Pa.	10
Bluff City, Tenn.	15	Conway, S. C.	7
Bonnars Ferry, Idaho.	24	Cordova, Ala.	20
Boone, Iowa.	11	Corinth, N. Y.	10
Boonville, Mo.	20	Coshocton, Ohio.	10
Booth, Tex.	39	Creston, W. Va.	20
Bowling Green, Ky.	20	Cumberland, Md.	8
Bridgeport, Ala.	24	Dallas, Tex.	25
Brookville, Pa.	8	Dandridge, Tenn.	15
Buchanan, Va.	12	Danville, Va.	8
Burnside, Ky.	50	Dardanelle, Ark.	21
Cairo, Ill.	45	Davenport, Iowa.	15
Calhoun Falls, S. C.	15	Davis Island Dam, Pa.	25
Calico Rock, Ark.	15	Dayton, Ohio.	18
Calvin, Ind. T.	10	Defiance, Ohio.	10
Camden, Ark.	39	Demopolis, Ala.	35
Camden, S. C.	24	Des Moines, Iowa.	19
Camden on Gauley, W. Va.	18	Donaldsonville, La.	28
Canton, Ga.	20	Driftwood, Pa.	18
Cape Girardeau, Mo.	28	Dublin, Ga.	30
Carlton, Ga.	11	Dubuque, Iowa.	15
Carthage, Tenn.	40	East Bloomsburg, Pa.	29
Castleton, N. Y.	10	Eaton Rapids, Mich.	6
Catlettsburg, Ky.	50	Edisto, S. C.	6
Catlettsburg, Tenn.	8	Effingham, S. C.	12
Cedar Rapids, Iowa.	14	Ellwood Junction, Pa.	14
Cedarrun, Pa.	10	El Paso, Tex.	14
Celina, Tenn.	45	Enterprise, Miss.	18

Station.	Danger line.	Station.	Danger line.
Eufaula, Ala.	40	Kingston, Tenn.	25
Eugene, Oreg.	10	Kingstree, S. C.	12
Evansville, Ind.	35	Kiomache, Tex.	27
Fairbluff, N. C.	6	Knoxville, Tenn.	29
Fairmont, W. Va.	25	Kopperl, Tex.	21
Falmouth, Ky.	25	La Crosse, Wis.	12
Farrandsville, Pa.	19	Lamoure, N. Dak.	14
Fayetteville, N. C.	38	Lansing, Mich.	11
Florence, Ala.	16	Leadvale, Tenn.	15
Folsom City, Cal.	35	Leclair, Iowa.	10
Fort Benton, Mont.	12	Lewiston, Idaho.	24
Fort Gibson, Ind. T.	22	Liberty, Tex.	25
Fort Hunter, N. Y.	12	Lindsborg, Kans.	20
Fort Smith, Ark.	22	Little Falls, N. Y.	6
Frankfort, Ky.	31	Little Rock, Ark.	23
Fremont, Ohio.	10	Lockhaven, Pa.	12
Freeport, Pa.	20	Lock No. 4, Ala.	17
Fulton, Ark.	28	Lock No. 4, Pa.	28
Gadsden, Ala.	22	Logansport, La.	25
Galland, Iowa.	8	Long Lake, Tex.	35
Gaylordsville, Conn.	15	Loudon, Tenn.	25
Glasgow, Mo.	18	Louisville, Ky.	28
Glendive, Mont.	17	Luxora, Ark.	33
Glenville, W. Va.	20	Lynchburg, Va.	18
Gonzales, Tex.	22	McGhee, Tenn.	20
Grafton, Ill.	23	McMinnville, Oreg.	35
Grandledge, Mich.	6	Macon, Ga.	18
Grand Rapids, Mich.	11	Madison, Ind.	46
Grand Rapids, Wis.	14	Manhattan, Kans.	18
Greensboro, Pa.	18	Mankato, Minn.	18
Greenville, Miss.	42	Marked Tree, Ark.	17
Greenwood, Miss.	38	Marshall, N. C.	9
Guntersville, Ala.	31	Marysville, Cal.	16
Hamilton, Ohio.	12	Mauch Chunk, Pa.	15
Hancock, N. Y. (East Branch).	12	Maysville, Ky.	50
Hancock, N. Y. (West Branch).	10	Mechanicsville, N. Y.	9
Hannibal, Mo.	13	Melville, La.	31
Harpers Ferry, W. Va.	18	Memphis, Tenn.	33
Harrisburg, Oreg.	17	Merrill, Miss.	20
Harrisburg, Pa.	17	Mifflin, Pa.	27
Hartford, Conn.	13	Milledgeville, Ga.	25
Hattiesburg, Miss.	20	Milstead, Ala.	35
Havre, Mont.	9	Monroe, La.	40
Helena, Ark.	42	Montezuma, Ga.	20
Hempstead, Tex.	40	Montgomery, Ala.	35
Hermann, Mo.	24	Moorhead, Minn.	26
Herrs Island Dam, Pa.	22	Morgan City, La.	8
Highbridge, Ky.	17	Mount Carmel, Ill.	15
Hinton, W. Va.	14	Mount Holly, N. C.	15
Hollingsworth Ferry, Ga.	8	Mount Vernon, Ind.	35
Holyoke, Mass.	9	Muscataine, Iowa.	16
Hoosick Falls, N. Y.	8	Napoleon, Ohio.	13
Huntingdon, Pa.	24	Nashville, Tenn.	40
Huntington, W. Va.	50	Natchez, Miss.	46
Huron, S. Dak.	9	Neosho Rapids, Kans.	22
Iola, Kans.	10	New Madrid, Mo.	34
Ionia, Mich.	24	New Orleans, La.	16
Irwin, Pa.	6	Newport, Ark.	26
Jackson, Ky.	24	Newport, Wash.	14
Jackson, Miss.	20	Nisbet, Pa.	26
Jefferson, Oreg.	10	Northport, Wash.	40
Johnsonville, Tenn.	21	Northville, N. Y.	10
Johnstown, Pa.	7	Oakdale, Ga.	18
Kansas City, Mo.	21	Oil City, Pa.	13
Karthauss, Pa.	10	Omaha, Nebr.	18
Keating, Pa.	32	Orange, Tex.	7
Keokuk, Iowa.	15	Oroville, Cal.	25
Kilbourn, Wis.	10	Oswego, Kans.	20

Station.	Danger line.	Station.	Danger line.
Ottumwa, Iowa	10	Shreveport, La.	29
Paducah, Ky	40	Shubuta, Miss	25
Parker, Pa.	20	Sinking Spring, Tenn.	15
Parkersburg, W. Va.	36	Sinnemahoning, Pa.	28
Peoria, Ill.	14	Sioux City, Iowa	19
Philippi, W. Va.	10	Smiths Mills, S. C.	16
Phillipsburg, N. J.	26	Speers Ferry, Va.	20
Pierre, S. Dak.	14	Springbank, Ark.	29
Piqua, Ohio.	14	Springfield, Ohio	10
Pittsburg, Pa.	22	Stillwater, Minn.	11
Plattsmouth, Nebr.	17	Stoystown, Pa.	4
Point Pleasant, W. Va.	39	Stuyvesant, N. Y.	9
Pompton Plains, N. J.	8	Sutton, W. Va.	30
Port Jervis, N. Y.	14	Swanlake, Miss.	24
Portland, Mich.	12	Tallassee, Ala.	
Portland, Oreg.	15	Tazewell, Tenn.	20
Portsmouth, Ohio	50	Terre Haute, Ind.	16
Prairie du Chien, Wis.	18	The Dalles, Oreg.	40
Prospect, Ohio.	9	Tiffin, Ohio	8
Pueblo, Colo.	10	Topeka, Kans.	21
Radford, Va.	14	Towanda, Pa.	16
Reading, Pa.	12	Townsend, Mont.	11
Red Bluff, Cal.	23	Trenton, N. J.	18
Redding, Cal.	20	Trenton Falls, N. Y.	8
Red Wing, Minn.	14	Tribeshill, N. Y.	12
Reeds Landing, Minn.	12	Troy, N. Y.	14
Renovo, Pa.	16	Tualitin, Oreg.	15
Resaca, Ga.	10	Tulsa, Ind. T.	16
Reynolds, Ga.	10	Tuscaloosa, Ala.	43
Richmond, Va.	12	Umatilla, Oreg.	25
Rio Vista, Cal.	12	Utica, N. Y.	6
Riparia, Wash.	30	Valley Junction, Tex.	40
Riverside, Tex.	40	Vicksburg, Miss.	45
Riverton, Ala.	26	Victoria, Tex.	16
Riverton, Va.	22	Vienna, Ala.	42
Rockland, Tex.	20	Vincennes, Ind.	15
Rockwood, Tenn.	20	Waco, Texas.	22
Rogersville, Tenn.	14	Warfield, Ky.	
Rome, Ga.	30	Warren, Pa.	14
Rotherwood, Tenn.	14	Warrensburg, N. Y.	6
Rowlesburg, W. Va.	14	Warsaw, Ill.	18
Sacramento, Cal.	25	Washington, D. C.	8
St. Cloud, Minn.	4	Webbers Falls, Ind. T.	23
St. Joseph, Mo.	10	Weiser, Idaho.	20
St. Louis, Mo.	30	Weldon, N. C.	30
St. Marys, W. Va.	36	Wenatchee, Wash.	40
St. Paul, Minn.	14	West Newton, Pa.	23
St. Stephens, S. C.	12	Weston, W. Va.	18
Salem, Oreg.	20	Westpoint, Ga.	20
Saltsburg, Pa.	6	Wetumpka, Ala.	45
San Andreas, Cal.	20	Wheeling, W. Va.	36
San Joaquin Bridge, Cal.	15	Whitecliffs, Ark.	20
Schaghticoke, N. Y.	6	Wichita, Kans.	10
Schenectady, N. Y.	15	Wilkes-Barre, Pa.	17
Schoharie Junction, N. Y.	20	Williamsport, Pa.	20
Selinsgrove, Pa.	17	Woodbury, Ga.	10
Selma, Ala.	35	Yazoo City, Miss.	25
Sherwood, Ohio.	12	Zanesville, Ohio.	25

# LENGTHS IN MILES AND DRAINAGE AREAS IN SQUARE MILES OF THE RIVERS ON WHICH RIVER AND FLOOD SERVICE IS MAINTAINED.

River.	Length.	Drainage area.	River.	Length.	Drainage area.
Alabama	283	23, 820	James (Dakotas)	523	19, 481
Allegheny	291	9, 723	James (Virginia)	355	9, 684
American	66	1, 883	Juniata	140	3, 530
Arkansas	1, 497	177, 510	Kansas	232	57, 727
Atchafalaya	133		Kennebec	140	6, 110
Auglaize	84	1, 911	Kentucky	370	6, 630
Beaver	66	3, 053	Kootenai	399	29, 051
Big Blue	166	9, 490	Leaf	107	3, 369
Black (Arkansas)	136	8, 273	Lehigh	93	1, 452
Black (South Carolina)	117	1, 689	Licking	187	3, 296
Black Warrior	229	6, 246	Little (Arkansas)	149	3, 955
Brazos	950	36, 763	Little Kanawha	125	2, 288
Broad (Georgia)	54	1, 543	Little Pigeon	31	383
Calaveras	86	635	Little Tennessee	121	2, 396
Canadian	823	45, 922	Lycoming Creek	31	292
Cape Fear	172	8, 310	Lynch Creek	119	1, 550
Catawba	143	5, 345	Mad	58	407
Chattahoochee	410	9, 131	Maumee	110	5, 592
Cheat	65	1, 387	Merrimac	110	5, 015
Chickasawhay	144	2, 781	Miami	163	5, 247
Chippewa	168	6, 906	Milk	450	23, 908
Clarion	100	1, 163	Minnesota	347	16, 350
Clinch	250	3, 211	Mississippi	2, 327	1, 242, 600
Colorado (Texas)	605	45, 400	Missouri	2, 585	528, 850
Columbia	1, 148	240, 121	Mohawk	175	3, 468
Conemaugh and Kiskiminetas	75	1, 890	Monongahela	175	9, 877
Congaree	52	8, 478	Muskingum	95	7, 349
Connecticut	365	11, 269	Neches	258	11, 725
Coosa	271	7, 413	Neosho	404	11, 745
Cumberland	678	18, 573	New	254	9, 200
Dan	140	3, 798	Ocmulgee	247	6, 148
Delaware	269	11, 440	Oconee	253	5, 346
Des Moines	503	14, 670	Ohio	966	204, 320
Duck	161	3, 643	Oostanaula	60	2, 106
Edisto	147	3, 200	Osage	260	15, 375
Elk	176	1, 600	Ouachita	547	18, 228
Etowah	119	1, 900	Pascagoula	78	7, 694
Feather	106	6, 574	Passaic	86	949
Flint	275	8, 131	Pearl	342	8, 024
French Broad	205	6, 438	Pedee	376	15, 121
Gasconade	109	3, 553	Pend d'Oreille	229	25, 259
Gauley	101	1, 502	Penobscot	192	8, 934
Grand (Michigan)	181	5, 147	Pine Creek	79	971
Great Kanawha	61	11, 011	Pompton	6	380
Green	279	8, 575	Potomac	269	14, 479
Guadalupe	289	5, 568	Powell	113	893
Hiwassee	155	2, 687	Ramapo	35	161
Holston	247	3, 527	Red	1, 096	89, 970
Holston, South Fork	99	1, 695	Red, of the North	569	73, 214
Hoosick	41	730	Red Bank Creek	69	575
Housatonic	114	1, 933	Red Cedar	264	7, 535
Hudson	297	13, 366	Republican	461	23, 067
Illinois	285	28, 558	Rio Grande	1, 770	222, 981
Iowa	274	11, 634	Roanoke	155	9, 237

## DRAINAGE AREAS IN SQUARE MILES.

River.	Length.	Drainage area.	River.	Length.	Drainage area.
Rockaway .....	31	209	Susquehanna, North Branch .....	283	11,364
Sabine .....	368	13,826	Susquehanna, West Branch .....	197	6,692
Sacandaga .....	66	988	Tallapoosa .....	210	3,936
Sacramento .....	310	30,080	Tennessee .....	635	39,050
St. Croix .....	154	7,069	Tombigbee .....	367	19,477
St. Francis .....	338	8,711	Trinity .....	408	17,700
Sandusky .....	115	1,392	Tualitin .....	59	591
San Joaquin .....	278	27,057	Tug Fork, Big Sandy .....	154	1,232
Santiam .....	59	1,570	Tuolumne .....	140	1,918
Santee .....	162	15,209	Tygarts Valley .....	83	2,890
Savannah .....	457	11,402	Wabash .....	412	33,725
Schoharie .....	74	947	Waccamaw .....	124	1,572
Schroon .....	50	566	Waterce .....	95	3,181
Schuylkill .....	116	1,924	West Canada Creek .....	63	569
Scioto .....	191	6,432	White (Arkansas) .....	549	26,811
Shenandoah .....	58	3,009	Willamette .....	190	10,779
Sinnemahoning .....	44	1,032	Wisconsin .....	344	10,672
Smoky Hill .....	445	19,578	Yamhill .....	33	580
Snake .....	904	108,680	Yazoo .....	265	10,936
Solomon .....	101	6,882	Yellowstone .....	531	69,137
Stony Creek .....	35	250	Youghiogheny .....	98	1,750
Susquehanna .....	123	26,252	Yuba .....	125	3,540

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Harrisburg, Pa.	705	705	706	706	707	Mechanicsville, N. Y.				224	224
Hartford, Conn.			430	431	431	Melville, La.	345	345	346	346	347
Hattiesburg, Miss.					600	Memphis, Tenn.	326	327	327	328	328
Hayre, Mont.					347	Merrill, Miss.					602
Helena, Ark.	320	320	330	330	331	Miffin, Pa.	697	698	698	699	699
Hempstead, Tex.				719	720	Milledgeville, Ga.				156	156
Hermann, Mo.	381	382	382	383	383	Milstead, Ala.			400	401	401
Herndon, Cal.	648	649	649	650	650	Monroe, La.	270	271	271	272	272
Herr Island Dam, Pa.	452	453	453	454	454	Montague, Me.			416	417	417
Highbridge, Ky.		502	502	503	503	Montezuma, Ga.					170
Hinton, W. Va.	487	488	488	489	489	Montgomery, Ala.	402	402	403	403	404
Hollingsworth Ferry, Ga.					159	Moorhead, Minn.		624	624	625	625
Holyoke, Mass.			429	429	430	Mount Carmel, Ill.	506	507	507	508	508
Hoosick Falls, N. Y.				221	221	Mount Holly, N. C.					653
Huntingdon, Pa.	695	695	696	696	697	Mount Vernon, Ind.	593	594	594		595
Huntington, W. Va.	575	576	576	577	577	Muscatine, Iowa.	305	306	306	307	307
Huron, S. Dak.			351	351	352	Nashville, Tenn.	515	515	516	516	517
Iola, Kans.					245	Natchez, Miss.				339	339
Iowa City, Iowa.					236	Neosho Rapids, Kans.					245
Irwin, Pa.	459					New Madrid, Mo.		324	324	325	325
Jackson, Ky.					500	New Orleans, La.	342	342	343	343	344
Jackson, Miss.					606	Newport, Ark.	249	249	250	250	251
Johnsonville, Tenn.	558	558	559	559	560	Newport, Wash.					184
Johnstown, Pa.	438	438	439	439	440	Nisbet, Pa.	692				
Kansas City, Mo.	375	376	376	377	377	Northport, Wash.	188	188	188	188	188
Karlsruhe, Pa.	684	685				Northville, N. Y.					216
Keating, Pa.	685	686		686	687	Oakdale, Ga.	171	171	172	172	173
Keokuk, Iowa.	310	311	311	312	312	Oakfield, Ga.				166	166
Kingson, Tenn.	540	540	541	542	542	Oil City, Pa.	445	445	446	446	447
Kingstree, S. C.	615	615	616	616	617	Old Boonton, N. J.				603	
Klamache, Tex.					276	Omaha, Nebr.	368	368	369	369	370
Knights Landing, Cal.	643	644	644	645	645	Orange, Tex.				708	709
Knoxville, Tenn.	587	587	588	588	589	Oswego, Kans.					246
						Paducah, Ky.	595	596	596	597	597
						Parker, Pa.	447	448	448	449	449
						Parkersburg, W. Va.	570	571	571	572	572

# INDEX TO GAGE READINGS BY RIVER STATIONS.

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Stations.	1900.	1901.	1902.	1903.	1904.	Stations.	1900.	1901.	1902.	1903.	1904.
	Page.	Page.	Page.	Page.	Page.		Page.	Page.	Page.	Page.	Page.
Pasco, Wash. (Snake)					186	Sioux City, Iowa	365	366	366	367	367
Pasco, Wash. (Columbia)					190	Smiths Mills, S. C.	610	610	611	611	612
Peoria, Ill.	239	240	240	241	241	Solon, Me.			418	418	
Philippi, W. Va.	455	455				Speers Ferry, Va.	520	521	521	522	522
Phillipsburg, N. J.					212	Springbank, Ark.					279
Pierre, S. Dak.	363	363	364	364	365	Stillwater, Minn.					235
Pittsburg, Pa.	560	561	561	562	562	Stuyvesant, N. Y.				228	228
Plattsmouth, Nebr.	370	371	371	372	372	Sunbury, Pa.	700	700	701	701	702
Point Pleasant, W. Va.	573	573	574	574	575	Tallassee, Ala.	399	399	400		
Pompton Plains, N. J.				604	604	Tazewell, Tenn.					520
Port Jervis, N. Y.					211	Tehama, Cal.	641	641	642	642	643
Portland, Oreg.	207	207	208	208	209	Terre Haute, Ind.					506
Portsmouth, Ohio.	580	581	581	582	582	The Dalles, Oreg.	193	193	194	194	195
Prairie du Chien, Wis.	295	295	296	296	297	Topeka, Kans.					354
Radford, Va.	485	485	486	486	487	Towanda, Pa.	670	671	671	672	672
Reading, Pa.					210	Townsend, Mont.			357	358	358
Red Bluff, Cal.	638	639	639	640	640	Trenton, N. J.					212
Red Wing, Minn.	287	288	288	289	289	Trenton Falls, N. Y.					215
Reeds Landing, Minn.	290	290	291	291	292	Tribeshill, N. Y.					219
Renovo, Pa.	687	688	688	689		Troutrun, Pa.	681	682	682	683	683
Resaca, Ga.	386	387	387	388	388	Troy, N. Y.				225	226
Reynolds, Ga.	167					Tulsa, Ind. T.					254
Richmond, Va.	232	232	233	233	234	Tuscaloosa, Ala.	407	407	408	408	409
Riparia, Wash.	187	187	187		187	Umatilla, Oreg.	190	191	191	192	192
Riverside, Tex.				712	713	Upper Muscle Shoals, Ala.	548	548	549	549	550
Riverton, Ala.	555	556	556	557	557	Utica, N. Y.				217	217
Riverton, Va.		617	618	618	619	Vancouver, Wash.			198	198	199
Rockland, Tex.				709	710	Vicksburg, Miss.	336	337	337	338	338
Rogersville, Tenn.			527	528	528	Victoria, Tex.					726
Rome, Ga.	389	389	390	390	391	Vienna, Ala.					412
Rotherwood, Tenn.					527	Waco, Tex.	717	717	718	718	719
Rowlesburg, W. Va.	456	456	457	457	458	Warren, Pa.	442	443	443	444	444
Sacramento, Cal. (American)	636	636	637	637	638	Warrensburg, N. Y.					220
Sacramento, Cal. (Sacramento)	646	646	647	647	648	Warsaw, Ill.					313
St. Cloud, Minn.					284	Webbers Falls, Ind. T.	255	255	256	256	257
St. Joseph, Mo.	373	373	374	374	375	Weiser, Idaho	185	185	185	185	185
St. Louis, Mo.	318	319	319	320	320	Weldon, N. C.	631	631	632	632	633
St. Paul, Minn.	285	285	286	286	287	Wells River, Vt.			424	425	425
St. Stephens, S. C.	659	659	660	660	661	Wenatchee, Wash.	189	189	189	189	189
Salem, Oreg.	204	205	205	206	206	West Newton, Pa.	462	463	463	464	464
Saltsburg, Pa.		440	441	441	442	Weston, W. Va.	465	465	466	466	467
San Joaquin Bridge, Cal.	651	651	652	652	653	West Point, Ga.	173	174	174	175	175
Schaghticoke, N. Y.					222	Wetumpka, Ala.	396	397	397	398	398
Schenectady, N. Y.				219	220	Wheeling, W. Va.	568	568	569	569	570
Schoharie Junction, N. Y.					216	Whitecliffs, Ark.					273
Selinsgrove, Pa.	702	703	703	704	704	Whiteriver Junction, Vt.			426	426	427
Selma, Ala.	404	405	405	406	406	Wichita, Kans.	252	252	253	253	254
Shreveport, La.	279	280	280	281	281	Wilkes-Barre, Pa.	673	673	674	674	675
Shubuta, Miss.					601	Williamsport, Pa.	692	693	693	694	694
Simmesport, La.					344	Winslow, Me.			419	419	420
Sinking Spring, Tenn.			533			Woodbury, Ga.	163	164	164	165	165
Sinnemahoning, Pa.	680	680				Yazoo City, Miss.	265	266	266	267	267
						Yuma, Ariz.	181	182	182	183	183
						Zanesville, Ohio	477	478	478	479	479

## DESCRIPTION OF RIVER GAGES, ETC.

## ALTAMAHA RIVER SYSTEM—OCONEE RIVER, MILLEDGEVILLE, GA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....									2.5	2.5	2.6	2.7
2.....									2.4	2.5	2.6	2.6
3.....									2.4	2.4	2.6	2.6
4.....									2.4	2.4	2.6	2.6
5.....									2.4	2.4	3.9	2.8
6.....									2.4	2.3	3.8	2.8
7.....									2.4	2.2	3.7	2.8
8.....									2.2	3.1	3.2	2.7
9.....									3.5	2.6	3.1	2.6
10.....									2.5	2.6	2.7	3.4
11.....									2.5	2.4	2.8	3.4
12.....									2.3	2.2	2.7	3.2
13.....									2.1	2.2	2.8	3.0
14.....									2.4	2.4	2.8	3.0
15.....									3.4	2.3	2.8	3.1
16.....									17.3	2.4	2.8	3.1
17.....									17.3	3.5	2.8	2.9
18.....									8.6	5.7	3.4	2.8
19.....									5.3	3.6	3.2	2.8
20.....									3.9	3.0	2.9	2.8
21.....									3.4	2.9	2.8	3.0
22.....									3.2	2.8	2.8	3.0
23.....									3.1	2.6	2.8	3.0
24.....									3.0	2.6	2.8	3.0
25.....								3.2	2.9	2.6	2.8	3.0
26.....								3.1	2.8	2.4	2.8	3.9
27.....								3.0	2.6	2.4	2.8	3.7
28.....								2.8	2.6	2.5	2.7	3.3
29.....								2.8	2.6	2.5	2.7	3.0
30.....								2.6	2.5	2.5	2.7	2.9
31.....								2.6		2.6		2.9
Means.....									4.0	2.7	2.9	3.0
<b>1904</b>												
1.....	2.9	3.4	3.9	3.2	2.5	3.6	2.4	4.6	1.8	0.6	0.6	1.3
2.....	2.8	3.4	3.9	3.5	2.4	3.6	2.4	2.9	1.4	0.5	0.6	1.4
3.....	2.8	3.2	3.8	3.2	2.4	2.6	2.1	2.8	1.4	0.5	0.7	2.2
4.....	2.8	3.2	3.8	3.1	2.4	2.2	1.8	3.6	1.3	0.9	1.1	2.0
5.....	2.8	3.1	3.8	2.9	2.3	1.8	1.6	2.8	1.3	0.6	1.7	2.1
6.....	2.8	3.1	3.4	3.0	2.1	1.6	1.5	2.4	2.7	0.5	1.8	3.2
7.....	2.8	3.1	4.4	3.1	2.1	1.6	1.4	4.6	2.5	0.5	1.5	4.8
8.....	2.8	5.2	6.4	3.4	2.1	2.2	1.2	11.6	2.2	0.5	1.5	4.1
9.....	2.8	5.2	7.4	3.7	2.1	2.8	1.2	7.2	1.8	0.4	1.4	2.9
10.....	3.0	5.4	6.1	4.4	2.3	2.2	1.7	9.2	1.6	0.8	1.3	2.4
11.....	3.0	9.5	4.7	3.6	3.5	1.7	2.2	11.6	1.3	0.4	1.1	2.2
12.....	3.0	9.0	4.2	3.4	2.3	1.6	4.2	7.1	1.3	0.5	1.3	2.1
13.....	3.0	6.7	3.9	3.0	2.2	2.1	2.1	5.2	1.3	0.5	1.5	2.2
14.....	3.1	5.1	3.7	2.9	2.1	1.7	1.8	3.4	1.1	0.5	1.8	2.0
15.....	3.1	4.6	3.9	2.8	2.1	1.5	1.4	2.8	1.2	0.3	2.0	2.0
16.....	3.0	4.4	4.7	2.7	2.1	1.4	1.3	7.3	1.0	0.2	1.8	2.4
17.....	3.0	4.0	4.0	2.7	2.1	1.4	1.1	5.5	1.2	0.7	1.6	2.2
18.....	4.2	3.8	3.5	2.7	2.0	1.2	1.2	4.1	0.9	0.2	1.4	2.5
19.....	3.5	3.6	3.5	2.8	2.0	1.2	1.1	3.3	1.0	0.2	1.3	2.3
20.....	3.4	3.6	3.4	2.7	1.8	1.1	1.2	2.7	0.6	0.3	1.2	2.0
21.....	3.1	3.7	3.3	2.7	1.8	1.0	0.9	2.1	1.0	0.3	1.1	2.0
22.....	3.2	6.9	3.3	2.6	1.8	1.4	1.0	1.9	1.0	0.4	1.3	1.9
23.....	11.5	9.4	3.9	2.7	1.7	2.6	0.6	1.8	0.7	0.4	1.4	1.8
24.....	9.0	8.1	6.1	2.8	1.6	2.0	1.5	1.6	0.8	0.4	1.5	1.7
25.....	5.7	6.3	6.2	2.6	1.6	1.6	1.8	2.1	0.6	0.3	1.7	1.7
26.....	4.5	5.1	4.6	2.5	1.4	1.4	2.4	1.9	0.6	0.3	1.9	1.8
27.....	3.8	4.4	4.1	2.8	1.2	1.4	1.8	2.1	0.6	0.3	1.6	1.8
28.....	3.6	4.1	4.3	2.8	1.4	1.1	1.4	2.6	0.5	0.6	1.3	5.4
29.....	3.6	4.0	3.8	2.8	1.4	2.0	1.4	2.1	0.5	0.8	1.2	4.8
30.....	3.6		3.4	2.6	1.6	1.8	1.4	2.0	0.4	0.7	1.4	3.9
31.....	3.4		3.3		2.6		2.4	1.8		0.7		3.0
Means.....	α 3.7	α 5.0	α 4.3	α 3.0	α 2.0	α 1.8	1.7	4.1	1.2	0.5	1.4	2.5

α United States Geological Survey records.



## DESCRIPTION OF RIVER GAGES, ETC.

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## ALTAMAHA RIVER SYSTEM—OCONEE RIVER, DUBLIN, GA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	2.4	1.7	8.0	8.8	8.3	1.6	19.0	4.7	0.8	-0.1	1.0	2.3
2.....	2.1	1.6	9.6	6.5	6.4	1.4	16.9	5.0	2.7	-0.3	0.9	1.8
3.....	1.8	1.6	10.4	5.3	6.9	1.3	14.8	3.7	2.3	-0.3	3.7	1.6
4.....	1.7	1.6	11.0	3.8	7.3	1.2	12.7	2.9	2.1	-0.2	4.7	1.8
5.....	1.6	1.8	11.7	4.5	7.5	1.9	10.1	2.5	1.5	0.0	5.5	3.2
6.....	1.6	3.4	11.0	4.3	6.7	2.8	8.5	1.9	1.2	0.8	6.5	6.4
7.....	1.5	3.7	9.0	4.2	5.4	4.1	8.0	1.6	0.5	1.2	6.6	7.2
8.....	1.4	3.5	6.6	4.0	4.1	5.0	5.5	1.6	0.4	0.9	4.8	7.6
9.....	1.2	3.1	5.8	3.7	3.9	6.0	3.9	1.5	0.2	1.1	3.9	6.8
10.....	1.4	3.5	6.0	3.5	3.3	6.0	3.2	1.3	0.2	1.2	2.6	4.5
11.....	1.9	7.9	8.0	3.3	3.0	6.2	2.6	0.7	0.0	1.0	1.8	3.3
12.....	2.4	10.2	8.5	3.9	2.7	5.7	2.8	0.4	-0.2	0.8	1.3	2.7
13.....	4.3	11.9	8.7	5.0	2.5	4.3	6.6	0.2	-0.3	0.6	1.2	2.3
14.....	5.4	16.4	8.0	5.9	2.3	3.0	6.1	0.1	-0.1	0.7	1.0	2.3
15.....	5.7	22.0	7.1	6.3	2.2	2.9	5.5	0.3	-0.1	0.6	1.0	5.2
16.....	4.9	24.4	6.4	5.0	2.1	5.0	4.7	1.1	0.4	0.6	0.9	6.7
17.....	3.3	24.9	8.1	4.1	2.0	7.5	4.1	0.8	4.8	0.6	0.8	8.1
18.....	2.9	24.1	8.7	3.4	1.9	8.3	2.8	0.6	5.8	0.5	0.7	8.4
19.....	2.8	22.6	9.0	5.1	2.1	9.9	2.3	0.5	6.0	0.2	0.9	6.4
20.....	3.2	20.0	9.1	8.2	3.7	10.3	2.0	0.3	3.5	0.1	0.7	4.2
21.....	4.1	17.2	8.5	11.1	5.5	10.6	1.8	0.1	1.9	0.1	0.7	4.6
22.....	4.7	14.0	7.4	15.6	5.3	10.2	1.5	0.5	1.3	0.0	1.1	6.8
23.....	4.4	10.7	7.8	16.9	3.6	7.9	1.2	0.5	0.7	0.0	1.2	7.7
24.....	3.9	9.1	8.3	17.6	3.1	8.0	1.0	0.4	0.4	0.7	0.8	8.0
25.....	3.3	9.0	8.9	17.3	3.6	9.0	2.4	0.8	0.3	3.7	0.7	8.2
26.....	2.9	8.7	9.5	17.0	5.8	9.9	3.1	1.3	0.3	5.6	1.7	6.5
27.....	2.4	8.1	9.6	17.1	5.0	11.6	2.1	0.9	0.3	5.5	3.5	4.8
28.....	2.2	7.4	9.8	16.0	3.4	16.7	1.7	0.7	0.2	3.0	5.3	3.8
29.....	2.0	-----	10.2	13.6	3.0	20.0	1.5	0.5	0.2	2.1	4.7	3.4
30.....	1.8	-----	10.4	11.1	2.2	20.8	5.9	0.5	0.0	1.9	3.4	3.3
31.....	1.7	-----	10.2	-----	1.9	-----	5.2	0.8	-----	1.3	-----	8.4
<b>Means.</b>	<b>2.8</b>	<b>10.5</b>	<b>8.7</b>	<b>8.4</b>	<b>4.1</b>	<b>7.3</b>	<b>5.5</b>	<b>1.2</b>	<b>1.2</b>	<b>1.1</b>	<b>2.3</b>	<b>5.1</b>
<b>1901</b>												
1.....	9.8	4.7	4.6	16.4	3.7	4.0	6.1	1.5	10.3	4.0	0.8	1.0
2.....	10.4	5.1	4.2	16.1	3.5	6.3	6.5	1.4	10.5	4.3	0.8	1.0
3.....	11.3	5.6	3.9	16.5	3.3	7.0	6.0	1.2	10.3	4.5	0.8	1.0
4.....	12.5	6.7	3.7	16.6	3.0	7.5	5.8	1.2	9.4	5.1	0.8	1.3
5.....	13.0	8.6	3.4	20.5	2.9	6.0	4.3	0.8	6.3	4.8	0.8	1.6
6.....	13.9	9.3	3.2	22.6	2.7	5.0	3.0	0.5	3.4	3.9	0.9	2.5
7.....	13.9	11.0	3.0	21.3	2.5	5.3	2.8	1.4	2.3	2.8	1.1	2.2
8.....	13.0	14.3	2.9	19.5	2.9	7.5	2.0	4.0	2.0	2.1	1.0	1.8
9.....	10.8	15.6	2.8	17.4	2.8	8.1	1.8	4.4	1.7	2.0	1.0	1.6
10.....	7.4	15.8	2.8	15.0	2.6	9.5	1.7	4.5	1.3	1.6	1.0	1.5
11.....	6.0	14.6	4.5	12.0	2.4	8.4	2.1	2.9	1.2	1.7	0.9	1.5
12.....	5.4	13.8	5.5	8.2	2.1	7.5	2.1	1.7	1.0	1.7	0.9	2.0
13.....	6.0	13.4	6.6	6.0	2.0	4.9	2.0	3.4	0.8	1.6	0.9	2.0
14.....	6.6	12.5	8.0	7.0	1.8	7.7	1.9	4.3	0.7	2.0	0.9	1.7
15.....	7.4	10.2	8.2	8.0	1.8	9.1	1.8	4.0	0.6	2.5	0.8	2.0
16.....	8.0	8.9	6.2	8.9	2.0	10.4	1.5	4.5	1.4	2.0	0.9	5.5
17.....	8.6	6.8	5.1	9.6	2.2	11.2	2.4	4.5	1.4	1.7	0.9	6.8
18.....	9.1	5.9	4.6	10.0	1.8	11.4	2.7	6.2	4.0	1.4	0.9	7.4
19.....	9.6	5.4	4.2	9.8	1.7	11.3	2.5	6.5	1.4	1.3	0.9	8.3
20.....	9.9	5.1	3.7	9.0	2.0	10.8	3.3	7.4	14.5	1.3	1.1	8.0
21.....	10.3	4.7	4.7	8.1	3.6	9.7	5.9	8.0	17.8	1.2	1.4	4.5
22.....	9.6	4.5	4.8	8.0	6.0	7.6	7.0	7.8	19.4	1.0	1.5	3.0
23.....	6.6	4.2	4.0	7.6	7.5	5.3	7.6	7.5	18.0	1.0	1.7	2.5
24.....	5.3	4.5	4.1	6.8	7.8	4.1	7.2	7.5	16.4	1.0	1.6	2.6
25.....	4.6	4.9	4.3	6.2	8.1	3.7	3.5	7.3	13.8	0.9	1.4	3.0
26.....	4.8	4.9	4.8	5.0	6.6	4.5	2.9	7.2	8.3	0.9	1.3	3.6
27.....	4.7	5.0	7.5	4.6	4.5	4.1	1.5	7.8	4.0	0.9	1.3	3.7
28.....	5.0	5.2	9.3	4.1	4.6	6.3	1.4	8.6	3.1	0.8	1.3	3.8
29.....	5.1	-----	12.0	3.8	3.9	6.0	3.0	9.6	3.8	0.8	1.2	6.0
30.....	5.6	-----	15.1	3.8	3.1	5.5	2.3	10.0	4.1	0.7	1.1	7.6
31.....	5.1	-----	16.5	-----	2.8	-----	1.8	10.3	-----	0.8	-----	8.6
<b>Means.</b>	<b>8.4</b>	<b>8.3</b>	<b>5.7</b>	<b>10.9</b>	<b>3.5</b>	<b>7.2</b>	<b>3.4</b>	<b>5.1</b>	<b>6.8</b>	<b>2.0</b>	<b>1.1</b>	<b>3.5</b>

## DESCRIPTION OF RIVER GAGES, ETC.

## ALTAMAHA RIVER SYSTEM—OCONEE RIVER, MILLEDGEVILLE, GA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1									2.5	2.5	2.6	2.7
2									2.4	2.5	2.6	2.6
3									2.4	2.4	2.6	2.6
4									2.4	2.4	2.6	2.6
5									2.4	2.4	3.9	2.8
6									2.4	2.3	3.8	2.8
7									2.4	2.2	3.7	2.8
8									2.2	3.1	3.2	2.7
9									3.5	2.6	3.1	2.6
10									2.5	2.6	2.7	3.4
11									2.5	2.4	2.8	3.4
12									2.3	2.2	2.7	3.2
13									2.1	2.2	2.8	3.0
14									2.4	2.4	2.8	3.0
15									3.4	2.3	2.8	3.1
16									17.3	2.4	2.8	3.1
17									17.3	3.5	2.8	2.9
18									8.6	5.7	3.4	2.8
19									5.3	3.6	3.2	2.8
20									3.9	3.0	2.9	2.8
21									3.4	2.9	2.8	3.0
22									3.2	2.8	2.8	3.0
23									3.1	2.6	2.8	3.0
24									3.0	2.6	2.8	3.0
25								3.2	2.9	2.6	2.8	3.0
26								3.1	2.8	2.4	2.8	3.9
27								3.0	2.6	2.4	2.8	3.7
28								2.8	2.6	2.5	2.7	3.3
29								2.8	2.6	2.5	2.7	3.0
30								2.6	2.5	2.5	2.7	2.9
31								2.6		2.6		2.9
Means									4.0	2.7	2.9	3.0
<b>1904</b>												
1	2.9	3.4	3.9	3.2	2.5	3.6	2.4	4.6	1.8	0.6	0.6	1.3
2	2.8	3.4	3.9	3.5	2.4	3.6	2.4	2.9	1.4	0.5	0.6	1.4
3	2.8	3.2	3.8	3.2	2.4	2.6	2.1	2.8	1.4	0.5	0.7	2.2
4	2.8	3.2	3.8	3.1	2.4	2.2	1.8	3.6	1.3	0.9	1.1	2.0
5	2.8	3.1	3.8	2.9	2.3	1.8	1.6	2.8	1.3	0.6	1.7	2.1
6	2.8	3.1	3.4	3.0	2.1	1.6	1.5	2.4	2.7	0.5	1.8	3.2
7	2.8	3.1	4.4	3.1	2.1	1.6	1.4	4.6	2.5	0.5	1.5	4.8
8	2.8	5.2	6.4	3.4	2.1	2.2	1.2	11.6	2.2	0.5	1.5	4.1
9	2.8	5.2	7.4	3.7	2.1	2.8	1.2	7.2	1.8	0.4	1.4	2.9
10	3.0	5.4	6.1	4.4	2.3	2.2	1.7	9.2	1.6	0.8	1.3	2.4
11	3.0	9.5	4.7	3.6	3.5	1.7	2.2	11.6	1.3	0.4	1.1	2.2
12	3.0	9.0	4.2	3.4	2.3	1.6	4.2	7.1	1.3	0.5	1.3	2.1
13	3.0	6.7	3.9	3.0	2.2	2.1	2.1	5.2	1.3	0.5	1.5	2.2
14	3.1	5.1	3.7	2.9	2.1	1.7	1.8	3.4	1.1	0.5	1.8	2.0
15	3.1	4.6	3.9	2.8	2.1	1.5	1.4	2.8	1.2	0.3	2.0	2.0
16	3.0	4.4	4.7	2.7	2.1	1.4	1.3	7.3	1.0	0.2	1.8	2.4
17	3.0	4.0	4.0	2.7	2.1	1.4	1.1	5.5	1.2	0.7	1.6	2.2
18	4.2	3.8	3.5	2.7	2.0	1.2	1.2	4.1	0.9	0.2	1.4	2.5
19	3.5	3.6	3.5	2.8	2.0	1.2	1.1	3.3	1.0	0.2	1.3	2.3
20	3.4	3.6	3.4	2.7	1.8	1.1	1.2	2.7	0.6	0.3	1.2	2.0
21	3.1	3.7	3.3	2.7	1.8	1.0	0.9	2.1	1.0	0.3	1.1	2.0
22	3.2	6.9	3.3	2.6	1.8	1.4	1.0	1.9	1.0	0.4	1.3	1.9
23	11.5	9.4	3.9	2.7	1.7	2.6	0.6	1.8	0.7	0.4	1.4	1.8
24	9.0	8.1	6.1	2.8	1.6	2.0	1.5	1.6	0.8	0.4	1.5	1.7
25	5.7	6.3	6.2	2.6	1.6	1.6	1.8	2.1	0.6	0.3	1.7	1.7
26	4.5	5.1	4.6	2.5	1.4	1.4	2.4	1.9	0.6	0.3	1.9	1.8
27	3.8	4.4	4.1	2.8	1.2	1.4	1.8	2.1	0.6	0.3	1.6	1.8
28	3.6	4.1	4.3	2.8	1.4	1.1	1.4	2.6	0.5	0.6	1.3	5.4
29	3.6	4.0	3.8	2.8	1.4	2.0	1.4	2.1	0.5	0.8	1.2	4.8
30	3.6		3.4	2.6	1.6	1.8	1.4	2.0	0.4	0.7	1.4	3.9
31	3.4		3.3		2.6		2.4	1.8		0.7		3.0
Means	a 3.7	a 5.0	a 4.3	a 3.0	a 2.0	a 1.8	1.7	4.1	1.2	0.5	1.4	2.5

<sup>a</sup> United States Geological Survey records.

ALTAMAHA RIVER SYSTEM—OCONEE RIVER, DUBLIN, GA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	1.7	2.5	3.9	2.5	1.0	0.0	-0.1	-0.5	0.6	-1.3	-1.1	-0.5
2.....	1.7	2.8	3.5	2.0	1.0	0.8	0.2	0.8	0.1	-1.4	-1.2	-0.5
3.....	1.7	2.7	3.5	2.0	1.0	2.0	0.6	1.4	-0.3	-1.3	-1.1	0.3
4.....	1.6	2.7	3.9	2.0	0.7	1.3	0.2	0.9	-0.4	-1.3	-1.0	1.2
5.....	1.6	2.7	4.0	1.8	0.7	0.5	-0.4	1.5	-0.5	-1.3	-0.8	1.2
6.....	1.6	2.0	3.9	1.6	0.7	0.3	-0.6	2.4	-0.5	-1.3	-0.5	1.3
7.....	1.5	2.0	3.9	1.6	0.4	0.1	-0.7	1.6	0.4	-1.3	-0.3	1.7
8.....	1.4	3.0	4.5	2.0	0.4	0.1	-0.7	2.4	1.1	-1.4	-0.3	2.9
9.....	1.4	5.0	5.5	2.0	0.3	0.0	-0.8	5.0	0.6	-1.3	-0.4	3.0
10.....	1.6	7.0	5.5	2.7	0.3	-0.1	-0.8	6.2	0.2	-1.3	-0.7	2.0
11.....	1.4	8.5	6.8	3.0	0.3	-0.3	-0.9	6.5	-0.1	-1.4	-0.7	1.0
12.....	1.4	9.0	5.5	3.0	0.3	-0.5	-0.7	6.8	-0.4	-1.3	-0.7	0.8
13.....	2.0	9.9	4.0	2.0	1.0	-0.1	0.2	6.9	-0.7	-1.4	-0.5	0.8
14.....	2.0	9.9	3.5	2.0	1.0	-0.1	0.3	6.6	-0.7	-1.4	-0.3	0.6
15.....	2.0	9.9	3.4	1.4	1.0	-0.1	-0.4	3.5	-0.7	-1.4	-0.1	0.5
16.....	2.0	7.5	3.4	1.0	0.7	-0.3	-0.6	1.8	-0.8	-1.4	-0.2	0.5
17.....	2.0	5.5	3.4	1.0	0.7	-0.5	-0.8	3.8	-0.9	-1.4	-0.1	0.8
18.....	2.0	4.5	3.4	1.0	0.7	-0.5	-0.9	3.3	-0.9	-1.5	-0.1	0.8
19.....	3.0	4.0	3.0	1.0	0.7	-0.5	-1.0	3.0	-0.9	-1.4	-0.2	0.9
20.....	2.8	3.5	2.9	1.0	0.7	-0.6	-1.0	2.0	-1.0	-1.5	-0.4	0.9
21.....	2.6	4.0	2.5	1.0	0.7	-0.5	-1.0	0.9	-1.0	-1.5	-0.4	0.8
22.....	2.0	5.5	2.0	1.0	0.4	-0.5	-1.0	0.4	-1.0	-1.5	-0.5	0.6
23.....	2.9	7.0	2.0	1.0	0.4	-0.5	-0.8	0.1	-1.0	-1.5	-0.5	0.4
24.....	6.6	7.8	2.9	1.0	0.4	-0.1	-0.8	-0.1	-1.1	-1.5	-0.4	0.3
25.....	7.6	8.0	3.8	1.0	0.0	-0.1	-0.6	0.1	-1.1	-1.5	-0.3	0.2
26.....	7.8	8.3	5.0	1.0	0.0	-0.4	-0.3	0.3	-1.1	-1.5	-0.1	0.2
27.....	6.9	7.0	4.5	1.0	0.0	-0.8	-0.2	0.9	-1.2	-1.4	0.1	0.3
28.....	4.4	5.0	4.0	1.0	-0.2	-0.9	-0.1	2.5	-1.2	-1.4	-0.1	0.6
29.....	3.6	4.0	3.8	1.0	-0.2	-0.8	-0.4	3.0	-1.2	-1.4	-0.2	2.5
30.....	3.2	-----	3.4	1.0	-0.5	-0.5	-0.6	1.0	-1.2	-1.3	-0.4	2.5
31.....	2.9	-----	3.0	-----	0.0	-----	-0.6	1.0	-----	-1.1	-----	2.5
Means.	2.8	5.6	3.8	1.6	0.5	-0.1	-0.5	2.5	-0.6	-1.4	-0.4	1.0

ALTAMAHA RIVER SYSTEM—OCMULGEE RIVER, HOLLINGSWORTH FERRY, GA.

[illegible]

## DESCRIPTION OF RIVER GAGES, ETC.

ALTAMAHA RIVER SYSTEM—OCONEE RIVER, DUBLIN, GA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	10.0	4.0	11.0	15.3	3.4	1.0	0.2	2.0	0.7	2.8	0.8	4.0
2.....	12.0	6.3	13.4	17.6	3.3	1.0	-0.1	1.7	0.5	1.7	0.5	5.3
3.....	14.1	8.0	23.0	17.5	4.5	1.2	-0.2	0.8	0.3	2.0	0.2	6.1
4.....	14.9	9.5	25.5	17.1	5.5	1.8	-0.2	0.3	-0.1	2.5	-0.1	7.5
5.....	15.3	14.0	25.8	16.0	4.7	1.6	-0.2	2.9	-0.4	1.6	-0.2	8.0
6.....	14.6	19.0	24.5	14.1	3.8	0.9	0.4	4.3	-0.6	2.9	-0.2	8.7
7.....	12.4	20.0	22.0	11.3	3.5	0.7	0.9	4.4	-0.9	2.7	0.3	9.0
8.....	7.0	19.5	19.0	9.0	3.0	0.6	0.7	3.5	-1.1	2.4	0.6	9.8
9.....	4.4	18.0	16.0	9.0	3.1	2.0	0.2	2.0	-1.2	1.8	0.8	9.0
10.....	3.9	15.6	13.0	9.0	2.7	3.9	0.2	0.9	-1.2	1.0	0.6	5.5
11.....	3.6	12.3	9.0	9.0	2.7	4.0	0.7	0.5	-1.3	0.7	0.5	3.5
12.....	3.2	7.3	7.5	8.5	2.7	3.0	1.0	1.0	1.2	0.8	0.4	3.2
13.....	3.0	5.0	6.5	7.0	2.5	1.3	2.5	2.4	2.0	0.9	0.3	3.0
14.....	2.8	4.3	6.0	6.0	2.3	1.0	4.5	1.3	1.5	1.0	0.2	4.8
15.....	2.6	4.1	7.1	5.6	2.0	1.0	3.5	0.7	0.7	1.2	0.1	4.9
16.....	2.5	4.1	9.8	5.5	2.2	1.2	4.4	1.0	0.4	2.0	0.0	3.8
17.....	2.4	4.8	12.7	5.5	3.0	4.5	5.1	2.3	0.8	1.0	-0.1	3.0
18.....	2.4	5.0	14.2	6.0	3.0	4.5	5.1	3.0	0.6	0.8	-0.1	2.6
19.....	2.4	5.0	19.0	7.9	2.7	2.5	3.3	1.7	0.2	0.5	-0.1	3.5
20.....	2.4	4.8	21.0	9.0	3.0	3.7	1.2	0.8	-0.2	0.1	1.0	3.0
21.....	2.5	4.6	19.7	10.0	2.9	2.8	0.8	0.4	0.3	-0.2	2.0	2.0
22.....	3.1	4.5	18.0	10.0	2.8	2.0	0.4	0.1	0.8	-0.4	1.4	1.4
23.....	3.7	6.5	15.9	8.1	2.7	2.0	2.4	0.5	0.7	-0.5	1.0	4.0
24.....	3.7	6.6	13.7	6.0	2.5	1.5	1.0	0.2	0.5	-0.5	0.7	5.5
25.....	3.4	7.0	11.6	5.0	2.3	1.1	0.5	-0.2	0.2	-0.6	0.5	5.0
26.....	3.0	8.0	10.1	4.6	2.0	0.7	1.7	-0.4	-0.1	-0.6	1.0	2.5
27.....	2.9	8.6	9.5	4.3	1.7	0.5	1.0	-0.4	1.0	-0.3	4.4	2.0
28.....	2.8	9.6	9.1	3.9	1.5	0.4	1.2	-0.3	3.5	1.5	5.5	1.7
29.....	2.6	.....	8.9	3.6	1.4	0.3	2.0	0.1	4.0	2.0	4.5	1.5
30.....	2.6	.....	10.9	3.6	1.3	0.2	1.8	0.2	4.2	1.8	3.5	1.3
31.....	3.0	.....	12.1	.....	1.1	.....	1.3	0.5	.....	1.5	.....	1.0
<b>Means.</b>	<b>5.5</b>	<b>8.8</b>	<b>14.4</b>	<b>8.8</b>	<b>2.8</b>	<b>1.8</b>	<b>1.5</b>	<b>1.3</b>	<b>0.6</b>	<b>1.1</b>	<b>1.0</b>	<b>4.4</b>
<b>1903</b>												
1.....	1.0	4.3	7.9	15.1	3.4	3.3	4.2	0.6	0.4	0.5	0.3	0.8
2.....	0.9	3.8	9.0	14.9	3.1	2.8	3.2	0.9	0.4	0.4	0.3	0.8
3.....	2.5	3.4	10.0	15.5	3.0	4.5	2.5	1.0	0.0	0.3	0.6	0.6
4.....	3.5	3.4	12.0	15.0	3.2	6.0	2.2	2.1	-0.1	0.1	0.8	0.7
5.....	4.0	4.0	13.5	14.1	4.8	7.5	2.3	4.2	-0.2	0.0	1.9	0.8
6.....	5.0	5.8	13.4	12.9	6.0	8.4	1.8	4.6	-0.1	-0.1	3.8	0.7
7.....	4.5	6.6	12.4	10.9	5.5	9.3	2.8	3.3	-0.2	0.1	3.0	0.8
8.....	4.0	7.8	11.8	8.9	4.3	10.5	4.8	2.0	-0.2	0.3	3.0	0.9
9.....	3.2	8.8	11.9	8.2	4.1	11.7	5.9	1.5	-0.2	0.6	2.2	0.9
10.....	2.6	11.0	10.8	8.8	4.5	13.0	6.8	0.9	-0.2	0.6	1.8	1.0
11.....	2.3	21.0	9.5	9.2	4.4	13.1	5.2	1.0	0.1	0.4	1.1	1.4
12.....	2.8	24.0	8.8	10.0	3.9	11.2	3.5	1.0	-0.1	0.2	1.0	2.0
13.....	3.6	23.4	8.6	10.5	3.5	8.5	3.2	1.2	0.0	0.1	1.1	1.8
14.....	4.0	22.7	8.5	10.1	3.3	6.3	4.0	1.0	0.1	0.1	1.1	1.8
15.....	4.4	21.5	8.4	9.5	5.3	4.7	5.8	1.2	0.5	0.0	1.1	1.1
16.....	3.9	20.0	8.6	9.0	8.5	3.6	6.7	2.6	2.2	0.0	1.0	1.3
17.....	3.2	18.4	8.4	8.5	9.8	3.2	7.3	3.8	6.5	0.5	1.1	1.3
18.....	3.2	16.9	8.3	7.3	10.8	2.7	6.8	5.4	7.6	1.2	1.0	1.3
19.....	3.2	15.4	7.7	6.0	11.5	2.5	3.7	6.0	9.0	4.3	1.3	1.1
20.....	2.8	15.6	6.8	5.3	10.4	2.3	2.5	7.0	10.7	3.0	1.6	1.0
21.....	2.5	16.9	6.0	5.2	5.9	2.2	2.1	8.0	9.9	1.8	1.6	1.0
22.....	2.4	16.8	5.9	5.4	4.2	2.4	1.7	8.8	9.0	1.6	1.6	1.2
23.....	2.4	15.8	7.5	5.3	3.6	2.1	1.3	9.1	2.0	0.9	1.0	1.5
24.....	2.3	14.3	8.8	4.5	3.0	2.6	1.2	5.0	1.5	0.6	1.0	1.7
25.....	2.4	12.0	9.8	4.1	2.7	2.4	1.0	2.5	1.3	0.5	0.9	1.6
26.....	2.7	8.2	11.3	3.8	2.4	2.0	0.9	1.8	1.0	0.4	0.9	2.5
27.....	3.3	6.3	13.4	3.9	2.3	2.1	0.7	1.5	0.9	0.3	0.9	3.7
28.....	5.7	6.3	15.1	4.7	2.3	3.5	0.6	1.0	0.8	0.2	0.9	3.5
29.....	6.0	.....	17.0	4.3	2.8	3.9	0.5	0.9	0.7	0.2	0.8	3.2
30.....	5.4	.....	17.6	3.6	5.3	4.7	0.5	0.6	0.5	0.2	0.8	2.6
31.....	5.0	.....	16.7	.....	3.8	.....	0.6	0.5	.....	0.3	.....	2.0
<b>Means.</b>	<b>3.4</b>	<b>12.7</b>	<b>10.5</b>	<b>8.5</b>	<b>4.9</b>	<b>5.4</b>	<b>3.1</b>	<b>2.9</b>	<b>2.1</b>	<b>0.6</b>	<b>1.3</b>	<b>1.5</b>

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	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1904</b>												
1.....	1.7	2.5	3.9	2.5	1.0	0.0	-0.1	-0.5	0.6	-1.3	-1.1	-0.5
2.....	1.7	2.8	3.5	2.0	1.0	0.8	0.2	0.8	0.1	-1.4	-1.2	-0.5
3.....	1.7	2.7	3.5	2.0	1.0	2.0	0.6	1.4	-0.3	-1.3	-1.1	0.3
4.....	1.6	2.7	3.9	2.0	0.7	1.3	0.2	0.9	-0.4	-1.3	-1.0	1.2
5.....	1.6	2.7	4.0	1.8	0.7	0.5	-0.4	1.5	-0.5	-1.3	-0.8	1.2
6.....	1.6	2.0	3.9	1.6	0.7	0.3	-0.6	2.4	-0.5	-1.3	-0.5	1.3
7.....	1.5	2.0	3.9	1.6	0.4	0.1	-0.7	1.6	0.4	-1.3	-0.3	1.7
8.....	1.4	3.0	4.5	2.0	0.4	0.1	-0.7	2.4	1.1	-1.4	-0.3	2.9
9.....	1.4	5.0	5.5	2.0	0.3	0.0	-0.8	5.0	0.6	-1.3	-0.4	3.0
10.....	1.6	7.0	5.5	2.7	0.3	-0.1	-0.8	6.2	0.2	-1.3	-0.7	2.0
11.....	1.4	8.5	6.8	3.0	0.3	-0.3	-0.9	6.5	-0.1	-1.4	-0.7	1.0
12.....	1.4	9.0	5.5	3.0	0.3	-0.5	-0.7	6.8	-0.4	-1.3	-0.7	0.8
13.....	2.0	9.9	4.0	2.0	1.0	-0.1	0.2	6.9	-0.7	-1.4	-0.5	0.8
14.....	2.0	9.9	3.5	2.0	1.0	-0.1	0.3	6.6	-0.7	-1.4	-0.3	0.6
15.....	2.0	9.9	3.4	1.4	1.0	-0.1	-0.4	3.5	-0.7	-1.4	-0.1	0.5
16.....	2.0	7.5	3.4	1.0	0.7	-0.3	-0.6	1.8	-0.8	-1.4	-0.2	0.5
17.....	2.0	5.5	3.4	1.0	0.7	-0.5	-0.8	3.8	-0.9	-1.4	-0.1	0.8
18.....	2.0	4.5	3.4	1.0	0.7	-0.5	-0.9	3.3	-0.9	-1.5	-0.1	0.8
19.....	3.0	4.0	3.0	1.0	0.7	-0.5	-1.0	3.0	-0.9	-1.4	-0.2	0.9
20.....	2.8	3.5	2.9	1.0	0.7	-0.6	-1.0	2.0	-1.0	-1.5	-0.4	0.9
21.....	2.6	4.0	2.5	1.0	0.7	-0.5	-1.0	0.9	-1.0	-1.5	-0.4	0.8
22.....	2.0	5.5	2.0	1.0	0.4	-0.5	-1.0	0.4	-1.0	-1.5	-0.5	0.6
23.....	2.9	7.0	2.0	1.0	0.4	-0.5	-0.8	0.1	-1.0	-1.5	-0.5	0.4
24.....	6.6	7.8	2.9	1.0	0.4	-0.1	-0.8	-0.1	-1.1	-1.5	-0.4	0.3
25.....	7.6	8.0	3.8	1.0	0.0	-0.1	-0.6	0.1	-1.1	-1.5	-0.3	0.2
26.....	7.8	8.3	5.0	1.0	0.0	-0.4	-0.3	0.3	-1.1	-1.5	-0.1	0.2
27.....	6.9	7.0	4.5	1.0	0.0	-0.8	-0.2	0.9	-1.2	-1.4	0.1	0.3
28.....	4.4	5.0	4.0	1.0	-0.2	-0.9	-0.1	2.5	-1.2	-1.4	-0.1	0.6
29.....	3.6	4.0	3.8	1.0	-0.2	-0.8	-0.4	3.0	-1.2	-1.4	-0.2	2.5
30.....	3.2		3.4	1.0	-0.5	-0.5	-0.6	1.0	-1.2	-1.3	-0.4	2.5
31.....	2.9		3.0		0.0		-0.6	1.0		-1.1		2.5
<b>Means.</b>	<b>2.8</b>	<b>5.6</b>	<b>3.8</b>	<b>1.6</b>	<b>0.5</b>	<b>-0.1</b>	<b>-0.5</b>	<b>2.5</b>	<b>-0.6</b>	<b>-1.4</b>	<b>-0.4</b>	<b>1.0</b>

[illegible]

## DESCRIPTION OF RIVER GAGES, ETC.

## ALTAMAHA RIVER SYSTEM—OCMULGEE RIVER, MACON, GA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	1.6	1.6	9.2	5.2	6.1	2.9	9.6	6.1	10.5	1.8	2.0	2.7
2.....	1.5	1.5	9.4	4.9	7.3	2.9	8.3	4.4	5.8	1.8	3.2	2.6
3.....	1.2	1.5	7.7	4.8	8.6	3.2	13.3	4.2	5.0	1.7	2.8	2.5
4.....	1.2	1.5	6.2	4.6	8.0	3.8	11.2	3.7	3.5	2.2	12.3	8.4
5.....	1.2	2.8	5.8	4.5	7.3	4.6	8.3	3.4	2.7	4.1	8.2	11.5
6.....	1.5	2.9	5.5	4.5	6.4	6.4	6.4	3.1	2.5	3.6	4.9	9.3
7.....	1.4	2.5	5.3	4.3	5.6	8.0	5.5	3.0	2.4	5.0	3.6	6.4
8.....	1.4	2.3	7.0	4.3	4.4	8.9	4.9	2.8	2.1	4.6	3.2	4.8
9.....	1.3	3.2	7.8	4.1	4.1	7.7	5.0	2.6	2.2	2.7	2.8	4.2
10.....	1.3	8.3	9.7	4.1	4.1	6.6	4.5	2.5	2.1	3.2	2.6	3.7
11.....	1.9	16.1	8.1	4.3	4.1	5.5	4.3	2.4	2.0	2.6	2.5	3.3
12.....	2.9	18.7	6.4	7.0	4.0	5.2	4.8	2.3	2.0	2.5	2.4	3.2
13.....	4.2	19.0	5.8	7.6	3.9	3.8	5.3	2.4	1.8	2.4	2.3	3.0
14.....	3.7	21.7	5.3	6.1	3.8	3.7	4.9	2.6	1.7	2.7	2.2	8.5
15.....	2.6	19.5	5.3	5.3	3.6	3.2	4.5	2.4	4.7	2.6	2.2	12.5
16.....	2.2	15.5	10.4	4.8	3.4	8.6	4.0	2.4	13.3	2.4	2.2	8.5
17.....	2.0	11.4	7.3	4.3	3.4	8.8	3.9	2.6	10.5	2.2	2.1	4.6
18.....	2.0	8.5	5.8	5.0	3.3	10.9	3.7	2.7	6.0	2.1	2.1	4.4
19.....	2.9	7.4	5.2	18.0	4.1	11.2	3.5	2.7	4.0	2.0	2.1	3.9
20.....	3.8	6.8	8.0	15.6	4.0	8.0	3.5	2.6	3.3	1.9	2.0	4.0
21.....	4.6	8.2	7.7	13.9	3.7	5.3	3.4	2.4	2.7	1.9	2.4	12.8
22.....	3.9	8.9	6.6	16.0	3.5	4.0	3.3	2.3	2.5	1.9	2.4	12.1
23.....	3.1	7.7	5.6	13.9	3.3	4.0	3.4	2.2	2.4	2.1	2.5	8.6
24.....	2.7	6.4	7.3	13.2	4.6	16.0	3.9	3.6	2.3	8.3	2.7	6.5
25.....	2.5	7.3	7.9	13.0	4.8	20.2	3.4	4.5	2.3	4.2	2.5	5.5
26.....	2.2	6.5	10.5	12.4	4.2	20.4	3.3	4.3	2.2	3.7	7.1	4.8
27.....	2.0	5.9	10.9	9.8	3.8	16.4	4.2	3.8	2.0	2.9	5.5	4.1
28.....	2.0	5.5	7.8	7.6	3.3	14.0	4.5	2.7	2.0	2.5	4.3	3.9
29.....	1.9	.....	7.4	7.0	3.1	12.7	5.6	2.4	2.0	2.4	3.2	3.7
30.....	1.7	.....	6.6	6.3	3.0	10.4	6.3	2.3	1.9	2.3	2.9	3.8
31.....	1.6	.....	5.8	.....	2.9	.....	8.0	3.8	.....	2.1	.....	7.5
<b>Means.</b>	<b>2.3</b>	<b>8.2</b>	<b>7.3</b>	<b>7.9</b>	<b>4.5</b>	<b>8.2</b>	<b>5.4</b>	<b>3.1</b>	<b>3.7</b>	<b>2.9</b>	<b>3.4</b>	<b>6.0</b>
<b>1901</b>												
1.....	11.7	4.7	4.1	14.5	4.2	9.9	5.3	3.8	5.4	3.4	1.7	1.9
2.....	12.3	5.0	4.0	9.5	4.1	8.5	5.5	3.0	7.5	3.3	1.7	1.9
3.....	13.7	4.5	3.9	18.8	4.0	6.2	5.7	2.5	4.8	5.3	1.7	2.0
4.....	11.9	14.9	3.8	17.3	3.9	5.4	3.8	2.2	4.4	5.6	1.7	1.9
5.....	9.5	15.9	3.8	13.1	3.9	5.1	3.2	2.2	3.4	3.9	2.0	3.2
6.....	7.7	13.7	3.7	10.5	4.0	4.3	3.0	3.8	3.1	3.3	2.0	2.7
7.....	6.5	10.1	3.5	9.0	3.9	4.7	2.9	9.4	3.0	3.0	2.1	2.4
8.....	5.7	8.7	3.4	7.7	3.8	6.8	3.2	7.4	2.8	2.8	2.0	2.4
9.....	5.1	12.1	3.4	6.7	3.7	5.3	3.1	4.4	2.6	2.7	1.9	2.3
10.....	4.8	11.3	3.5	6.1	3.6	4.0	3.0	3.0	2.5	2.6	2.0	2.4
11.....	4.6	9.5	5.8	5.7	3.5	3.5	3.8	3.8	2.4	2.6	2.0	3.1
12.....	5.8	7.9	6.9	5.4	3.4	3.3	2.9	8.2	2.4	2.5	1.9	2.9
13.....	12.6	7.4	5.4	5.6	3.4	3.8	2.7	5.0	2.3	3.0	1.9	2.5
14.....	12.0	6.5	5.0	8.5	3.5	6.0	2.6	4.4	2.6	2.9	2.0	2.3
15.....	8.6	5.8	4.2	10.4	3.5	6.9	2.5	3.4	3.2	2.8	2.1	13.7
16.....	7.2	5.4	3.8	10.2	3.3	9.6	3.7	5.9	2.9	2.6	2.0	11.9
17.....	11.4	5.1	3.6	8.3	3.2	8.8	4.0	14.6	5.0	2.5	1.9	7.5
18.....	11.2	4.9	3.4	6.8	3.1	7.5	3.5	11.6	17.7	2.3	1.9	4.7
19.....	7.8	4.7	3.4	6.5	3.0	9.2	4.0	7.4	16.2	2.2	2.0	3.7
20.....	6.1	4.6	3.3	7.7	3.3	6.6	15.4	7.0	12.0	2.0	2.2	3.2
21.....	4.3	4.4	3.7	7.8	5.5	5.2	8.5	7.8	7.8	1.9	2.4	2.7
22.....	5.0	4.2	3.9	6.5	12.0	4.6	5.5	5.2	6.0	2.1	2.5	2.1
23.....	4.5	4.2	3.6	5.8	13.9	5.1	4.0	10.0	4.7	2.0	2.3	2.3
24.....	4.4	4.4	3.8	5.5	9.2	5.3	3.5	14.4	3.9	2.0	2.2	3.1
25.....	4.8	4.5	4.4	5.2	5.7	4.7	2.8	12.0	3.5	1.9	2.2	3.4
26.....	5.1	4.6	16.1	5.0	5.0	3.3	2.6	7.2	3.3	1.9	2.1	3.4
27.....	4.5	4.6	16.1	4.8	5.3	5.3	2.5	4.8	3.1	1.9	2.0	3.7
28.....	5.0	4.4	13.2	4.6	4.7	5.1	2.9	10.0	3.1	1.8	2.0	4.9
29.....	5.1	.....	9.4	4.5	4.1	4.3	3.1	10.4	3.7	1.8	1.9	13.6
30.....	4.5	.....	7.2	4.3	3.8	5.4	3.1	9.6	3.9	1.7	1.9	17.1
31.....	5.3	.....	15.8	.....	4.7	.....	3.0	7.4	.....	1.7	.....	17.9
<b>Means.</b>	<b>7.4</b>	<b>7.1</b>	<b>5.8</b>	<b>8.1</b>	<b>4.7</b>	<b>5.8</b>	<b>4.0</b>	<b>6.8</b>	<b>5.0</b>	<b>2.6</b>	<b>2.0</b>	<b>4.9</b>

## ALTAMAHA RIVER SYSTEM—OCMULGEE RIVER, MACON, GA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	15.7	11.5	22.8	12.8	5.8	4.2	3.3	3.9	4.0	5.0	3.5	8.5
2.....	11.0	18.0	20.9	10.4	5.7	4.1	3.2	3.8	3.6	5.6	3.3	7.3
3.....	8.1	19.2	17.3	8.8	5.7	4.5	3.3	3.7	3.5	4.5	3.3	13.3
4.....	6.3	18.5	13.0	8.5	5.8	4.3	3.1	5.5	3.3	3.9	3.3	11.9
5.....	5.2	15.0	11.1	8.2	5.5	4.1	3.3	5.9	3.4	4.3	3.2	9.5
6.....	4.7	10.6	10.1	7.9	5.4	4.0	3.3	9.5	3.4	5.2	3.3	7.0
7.....	4.4	8.4	9.4	7.6	5.3	4.0	3.3	5.5	3.4	4.8	3.4	5.9
8.....	4.2	7.2	8.7	10.5	5.2	6.2	3.2	4.6	3.3	4.2	3.7	5.2
9.....	4.0	6.4	8.4	10.2	5.2	6.1	3.3	4.0	3.4	3.8	3.5	4.7
10.....	3.9	5.8	8.2	9.8	5.5	5.0	3.2	3.8	3.4	3.7	3.4	4.2
11.....	3.7	5.5	7.9	7.7	5.5	4.6	3.2	3.7	3.8	3.5	3.3	3.8
12.....	3.6	5.3	7.7	7.3	5.3	4.2	3.3	5.4	3.6	3.9	3.3	4.0
13.....	3.5	5.0	7.5	7.1	5.2	4.1	3.2	4.6	3.5	4.6	3.2	5.2
14.....	3.3	4.9	8.4	6.9	5.1	4.0	3.2	4.0	3.3	4.6	3.1	4.0
15.....	3.1	5.1	9.4	6.9	5.0	4.0	5.2	3.8	4.2	4.3	3.2	4.3
16.....	3.1	5.5	10.7	6.9	5.4	5.8	4.1	4.1	3.8	3.9	3.1	4.1
17.....	3.2	5.7	18.6	6.8	6.4	5.0	4.0	5.9	3.5	3.6	3.2	3.6
18.....	3.1	5.4	18.8	11.1	5.7	4.5	3.8	4.1	3.3	3.5	3.5	6.8
19.....	3.1	5.3	13.4	9.0	5.7	4.8	3.6	3.4	3.3	3.4	4.8	5.8
20.....	3.2	5.2	11.0	7.6	5.7	4.4	3.4	3.7	3.2	3.4	4.6	4.8
21.....	3.4	5.9	9.4	7.1	5.2	4.2	3.4	3.4	4.2	3.3	3.9	6.8
22.....	3.9	6.3	8.9	7.0	5.0	4.0	3.4	3.3	4.1	3.5	3.6	6.6
23.....	4.2	5.9	8.6	6.6	4.8	3.8	3.8	3.7	3.7	3.2	3.5	6.0
24.....	3.7	5.3	8.2	6.4	4.7	3.7	3.5	3.6	3.6	3.2	3.3	5.3
25.....	3.4	7.2	9.1	6.3	4.6	3.7	3.6	3.3	3.4	3.1	3.2	4.8
26.....	3.4	8.1	8.9	6.2	4.6	3.6	3.5	3.2	6.8	3.1	8.8	4.3
27.....	3.4	8.4	8.3	6.2	4.5	3.6	4.8	3.2	5.8	3.8	8.5	4.2
28.....	3.4	19.9	10.0	6.1	4.4	3.5	3.7	3.3	5.3	5.4	5.7	4.0
29.....	3.3	-----	16.2	5.9	4.3	3.4	4.9	4.3	5.4	4.7	4.4	3.8
30.....	3.9	-----	17.3	5.8	4.2	3.4	4.7	4.6	5.2	3.9	4.1	4.0
31.....	4.4	-----	14.6	-----	4.2	-----	4.2	4.5	-----	3.6	-----	4.8
Means.	4.5	8.6	11.6	7.9	5.2	4.3	3.6	4.3	3.9	4.0	3.9	5.8
<b>1903</b>												
1.....	4.8	4.2	14.3	14.3	5.3	7.2	4.4	4.1	2.9	2.3	2.2	2.5
2.....	4.5	4.0	12.3	11.4	5.1	13.5	4.3	3.5	2.7	2.3	2.3	2.4
3.....	4.7	4.0	9.3	9.9	5.2	11.5	4.4	3.7	2.6	2.4	2.5	2.3
4.....	4.7	4.3	8.3	9.0	6.1	9.4	4.6	5.6	2.4	2.4	2.8	2.3
5.....	5.2	5.7	9.5	8.9	6.6	12.9	4.9	6.3	2.0	2.4	3.5	2.4
6.....	4.9	7.8	10.0	8.1	6.4	17.4	4.4	7.4	2.5	2.5	4.1	2.7
7.....	4.6	6.7	8.8	8.3	5.8	12.9	4.4	5.5	2.3	2.5	3.2	2.8
8.....	4.4	19.0	7.8	7.7	7.0	12.3	4.9	3.9	2.2	2.5	3.0	2.8
9.....	4.2	21.2	7.7	12.2	6.5	8.8	6.0	3.5	2.2	2.6	2.9	2.9
10.....	4.0	18.4	12.6	13.0	6.0	8.2	5.6	3.4	2.1	2.6	2.6	3.3
11.....	3.9	14.6	11.2	10.0	5.5	6.9	4.5	3.2	2.1	2.5	2.6	3.3
12.....	4.9	17.6	11.4	8.9	5.3	6.4	7.3	3.1	2.1	2.4	2.5	3.2
13.....	5.4	16.3	11.2	7.7	5.1	5.8	6.6	3.5	2.2	2.3	2.9	2.9
14.....	4.9	12.9	9.3	8.9	5.3	5.3	10.2	3.6	2.2	2.4	2.8	2.9
15.....	4.4	10.6	8.1	8.8	7.2	5.1	11.0	5.9	9.9	2.4	2.7	3.2
16.....	4.2	10.2	9.2	7.7	11.0	4.7	7.4	7.3	14.7	2.3	2.8	2.9
17.....	4.2	16.3	8.7	6.9	8.2	4.5	5.3	7.3	13.0	2.9	2.7	2.7
18.....	4.1	16.5	7.5	6.6	6.3	4.4	4.6	5.7	8.3	4.9	2.9	2.7
19.....	3.9	14.1	6.9	6.3	5.7	4.4	4.3	9.8	5.5	3.5	2.9	2.6
20.....	3.8	11.1	6.5	6.2	5.2	4.2	4.2	11.2	4.4	3.1	3.1	2.4
21.....	3.8	9.4	6.4	8.2	5.1	4.1	3.9	5.7	3.8	2.9	3.0	2.9
22.....	3.8	7.9	10.3	7.3	4.9	4.4	3.9	5.1	3.6	2.7	2.9	3.2
23.....	3.8	7.3	14.4	6.2	4.7	4.5	3.6	4.1	3.3	2.4	2.7	3.1
24.....	3.8	6.9	17.9	5.8	4.9	4.4	3.5	4.3	3.2	2.4	2.8	2.9
25.....	4.0	6.3	18.3	5.7	4.5	4.2	3.4	4.0	3.2	2.4	2.8	2.6
26.....	4.1	6.2	15.6	6.6	4.3	4.0	3.4	3.2	3.1	2.3	2.7	3.7
27.....	4.8	6.1	11.3	6.5	4.2	4.2	3.3	3.1	3.0	2.3	2.6	3.4
28.....	5.1	8.0	9.2	5.9	4.7	5.3	3.2	2.9	3.0	2.3	2.6	3.4
29.....	5.1	-----	8.3	5.6	5.3	6.7	3.4	2.8	2.7	2.3	2.6	3.2
30.....	5.3	-----	14.5	5.4	4.7	5.4	3.2	2.7	2.5	2.3	2.5	2.8
31.....	4.7	-----	16.1	-----	4.6	-----	5.3	2.7	-----	2.3	-----	2.7
Means.	4.5	10.5	10.7	8.1	5.7	7.1	4.9	4.8	4.0	2.6	2.8	2.8

## DESCRIPTION OF RIVER GAGES, ETC.

## ALTAMAHA RIVER SYSTEM—OCMULGEE RIVER, MACON, GA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1904</b>												
1.....	2.5	3.5	4.2	3.1	2.8	3.9	1.9	3.5	1.8	0.0	0.0	1.0
2.....	2.5	3.5	4.1	3.0	2.8	4.8	1.9	2.3	1.7	-0.3	-0.1	1.1
3.....	2.1	3.6	4.2	3.1	2.8	3.4	2.0	2.9	1.4	-0.5	0.2	2.4
4.....	2.8	3.3	4.4	3.0	2.7	3.3	1.2	4.4	1.0	-0.8	0.7	1.8
5.....	2.7	3.2	4.2	2.9	2.7	1.9	0.9	5.3	1.0	-1.0	1.6	2.0
6.....	2.6	3.1	3.8	2.8	2.6	1.7	1.7	3.4	4.7	-0.2	1.5	5.1
7.....	2.4	3.2	6.1	3.0	2.5	1.5	1.2	2.4	3.0	0.2	1.4	6.0
8.....	2.4	8.3	7.3	3.2	2.6	2.0	1.2	10.0	2.0	0.1	0.9	4.4
9.....	2.6	7.5	7.1	5.7	3.6	4.3	1.0	11.1	1.6	0.0	0.9	3.3
10.....	2.7	6.5	5.7	5.1	5.3	3.3	0.7	15.4	1.5	-0.1	0.8	2.5
11.....	3.1	10.3	5.1	3.9	3.7	2.0	1.0	13.0	1.4	0.0	0.8	2.3
12.....	3.3	9.7	4.6	3.1	3.0	1.5	1.0	9.7	1.3	-0.1	0.5	2.0
13.....	3.2	7.9	4.2	3.2	2.8	1.3	1.9	6.7	1.3	-0.1	0.9	2.0
14.....	3.2	6.1	4.1	3.1	2.7	1.1	1.7	3.7	1.1	0.1	1.3	1.9
15.....	3.3	5.2	4.2	3.0	2.6	1.0	1.7	6.7	1.0	-0.1	1.8	1.9
16.....	3.2	4.8	5.0	2.9	2.5	1.0	1.2	5.4	1.0	-0.2	1.8	2.0
17.....	3.5	4.5	4.3	3.0	2.4	0.9	1.0	5.3	0.9	-0.3	1.3	1.9
18.....	4.5	4.2	3.9	2.8	2.3	0.9	1.1	4.9	0.8	-0.1	1.0	2.0
19.....	4.2	3.8	3.7	2.8	2.2	1.1	1.4	3.5	0.8	-0.3	0.9	1.8
20.....	3.5	4.1	3.7	3.0	2.1	0.9	2.3	2.5	0.7	-0.3	1.0	1.8
21.....	3.2	5.8	3.6	3.0	2.0	0.8	1.3	2.0	0.5	0.0	0.9	1.7
22.....	3.1	7.0	3.4	2.9	1.9	4.3	1.3	1.8	1.7	-0.3	0.9	1.5
23.....	12.6	10.3	3.6	2.9	1.8	3.4	1.1	1.7	0.6	-0.2	1.0	1.4
24.....	10.2	9.3	3.9	2.9	1.7	2.0	1.4	1.7	0.9	-0.4	1.5	1.4
25.....	6.9	7.2	4.0	2.9	1.6	1.4	2.7	7.0	0.6	-0.2	2.1	1.5
26.....	5.0	5.4	3.7	2.8	1.6	1.0	2.2	5.3	0.4	-0.3	1.8	1.7
27.....	4.3	5.2	3.6	2.8	1.5	0.8	1.2	6.3	0.3	-0.3	1.3	2.0
28.....	3.8	4.7	3.8	3.0	1.4	0.8	1.1	4.8	0.3	-0.2	1.2	6.4
29.....	3.7	4.3	4.3	3.0	1.3	1.3	0.8	3.3	0.2	0.0	1.0	5.5
30.....	3.6	.....	3.2	2.9	1.3	3.0	1.7	2.9	0.1	0.1	1.0	4.7
31.....	3.5	.....	3.0	.....	1.8	.....	4.6	2.0	.....	-0.1	.....	3.3
Means.	3.9	5.7	4.3	3.2	2.4	2.0	1.5	5.2	1.2	-0.2	1.1	2.6

## ALTAMAHA RIVER SYSTEM—OCMULGEE RIVER, ABBEVILLE, GA.

<b>1903</b>												
1.....						7.0	7.0	2.9	2.5	2.7	1.9	3.3
2.....						6.7	7.9	3.6	2.5	2.4	1.9	3.1
3.....						6.2	7.7	4.8	2.4	2.4	2.0	3.0
4.....						6.2	6.8	4.5	2.5	2.3	2.4	3.0
5.....						7.9	5.8	4.2	2.4	2.1	3.8	2.9
6.....						9.6	5.4	4.9	2.3	2.1	4.9	2.9
7.....						10.8	5.7	5.6	2.2	2.1	5.7	2.9
8.....						11.9	6.0	6.0	2.0	2.0	6.4	2.9
9.....						12.2	6.2	6.5	1.9	2.0	6.4	3.1
10.....						13.1	6.4	6.8	1.8	2.0	5.6	3.3
11.....						14.4	7.6	6.4	1.6	2.1	4.4	3.4
12.....						14.8	8.6	4.7	1.5	2.2	3.7	3.4
13.....						14.0	9.0	3.7	1.5	2.0	3.8	4.0
14.....						13.4	9.6	3.3	1.4	1.9	4.0	4.1
15.....						12.2	9.0	3.5	1.7	1.8	4.1	3.9
16.....						10.5	8.7	4.3	3.3	1.7	4.2	3.8
17.....						8.5	8.3	5.8	5.3	2.0	4.0	3.8
18.....						6.9	8.1	6.9	7.0	2.3	3.8	3.7
19.....						5.9	8.1	7.4	8.0	2.8	3.7	3.5
20.....						5.2	7.9	7.9	8.6	3.2	3.6	3.5
21.....						5.0	7.2	8.2	9.5	4.6	3.7	3.2
22.....						4.7	6.4	8.1	10.4	4.3	3.9	3.2
23.....						4.9	4.1	8.3	10.8	3.6	3.7	3.5
24.....						5.3	3.8	8.5	9.8	3.0	3.4	3.2
25.....						5.7	3.6	8.8	7.0	2.8	3.3	3.9
26.....						5.8	3.5	8.8	5.4	2.4	3.3	5.5
27.....						5.2	3.3	7.0	3.6	2.4	3.4	5.3
28.....						5.5	3.0	4.7	3.2	2.0	3.4	6.5
29.....						6.0	2.9	3.6	2.9	1.9	3.3	7.0
30.....						6.8	2.8	3.0	2.7	2.0	3.4	6.9
31.....						.....	2.8	2.8	.....	1.9	.....	6.4
Means.						8.4	6.2	5.7	4.3	2.4	3.8	3.9



## ALTAMAHA RIVER SYSTEM—OCMULGEE RIVER, ABBEVILLE, GA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	5.6	7.6	9.3	5.0	2.7	0.9	0.7	1.1	9.4	0.6	0.1	1.3
2.....	4.8	6.6	8.6	5.3	2.7	1.2	1.1	2.3	7.7	0.5	0.0	1.2
3.....	4.7	6.0	7.4	4.4	2.6	2.5	2.0	3.3	4.8	0.3	0.2	1.3
4.....	3.4	5.7	7.2	4.1	2.5	3.6	2.0	3.4	3.4	0.2	0.2	1.8
5.....	3.9	5.7	7.0	4.0	2.4	3.5	2.0	3.4	2.7	0.1	0.3	2.7
6.....	4.1	5.3	6.9	3.9	2.4	2.6	1.7	4.7	2.3	0.1	0.5	3.2
7.....	4.0	5.1	6.9	3.8	2.3	2.0	1.0	5.3	2.3	0.1	1.1	3.3
8.....	4.0	5.5	7.2	3.8	2.1	1.7	0.7	5.8	3.8	0.0	1.4	4.0
9.....	4.0	5.9	7.6	4.1	2.0	1.5	0.9	5.7	4.0	0.0	1.4	4.9
10.....	4.2	8.9	8.4	4.7	2.0	1.5	0.7	6.1	3.2	0.0	1.2	5.3
11.....	4.7	10.0	8.3	5.3	2.1	2.2	0.7	7.0	2.5	0.2	0.9	4.7
12.....	5.4	11.5	8.6	6.0	3.7	2.7	0.7	7.8	2.1	0.1	0.8	3.7
13.....	5.4	11.8	8.5	6.0	4.2	2.1	0.7	8.5	1.9	0.0	0.9	3.1
14.....	5.5	11.7	8.0	5.0	3.5	1.5	0.7	9.0	1.5	0.0	1.0	2.9
15.....	5.7	11.4	7.6	4.3	2.4	1.6	0.8	9.3	1.2	-0.1	1.1	2.6
16.....	5.4	11.3	7.0	3.7	2.2	0.9	1.0	9.9	1.2	-0.1	1.4	2.4
17.....	5.2	11.3	6.8	3.4	2.0	0.7	1.7	10.3	1.0	-0.2	1.7	2.3
18.....	5.1	11.2	6.6	3.2	1.9	0.6	1.0	10.1	1.0	-0.1	1.8	2.3
19.....	4.9	10.7	6.8	3.1	2.3	0.5	0.6	9.1	0.9	-0.1	1.7	2.3
20.....	5.3	9.7	6.8	3.1	2.3	0.5	0.6	7.9	0.8	-0.1	1.4	2.3
21.....	5.7	8.7	5.9	3.0	2.1	0.5	0.8	6.6	0.8	-0.1	1.2	2.2
22.....	5.5	8.3	5.3	2.9	1.9	0.6	1.3	5.5	0.7	-0.2	1.1	2.1
23.....	5.6	8.6	5.0	2.9	1.8	0.6	1.1	3.5	0.7	-0.3	1.1	2.0
24.....	6.2	9.1	5.3	2.8	1.4	0.8	1.1	2.9	0.7	-0.3	1.1	2.0
25.....	7.1	9.6	5.2	2.8	1.3	1.2	1.2	2.9	0.7	-0.3	1.2	1.9
26.....	8.1	9.3	5.3	2.7	1.2	1.9	1.4	2.9	0.9	-0.2	1.4	1.8
27.....	8.4	9.3	5.2	2.8	1.1	1.4	2.0	3.9	1.0	-0.2	1.7	1.9
28.....	8.8	9.3	5.6	2.8	1.0	0.9	2.0	5.7	0.8	-0.1	1.8	2.2
29.....	9.1	9.4	6.0	2.7	1.0	0.7	1.5	6.5	0.7	-0.1	1.6	2.6
30.....	9.4		6.0	2.7	0.9	0.5	1.1	8.7	0.6	-0.1	1.4	4.2
31.....	8.3		5.7		0.9		1.0	9.8		0.0		5.2
Means.	5.7	8.8	6.8	3.8	2.1	1.4	1.2	6.1	2.2	0.0	1.1	2.8

## APALACHICOLA RIVER SYSTEM—FLINT RIVER, WOODBURY, GA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....								2.5	0.4	0.2	0.4	0.7
2.....								1.7	0.7	0.1	1.2	0.6
3.....								1.2	0.6	0.2	2.0	0.5
4.....								1.0	0.4	0.5	3.3	1.8
5.....								1.2	0.3	1.5	2.8	2.3
6.....								0.8	0.2	1.8	1.3	2.1
7.....								0.6	0.2	1.2	1.0	1.8
8.....								0.5	0.2	1.0	0.8	1.4
9.....								0.4	0.1	0.8	0.7	1.3
10.....								0.4	0.1	0.7	0.6	1.0
11.....								0.3	0.2	0.5	0.5	0.9
12.....								0.3	0.2	0.5	0.6	0.8
13.....								0.7	0.1	0.6	0.5	0.8
14.....								0.4	0.1	0.6	0.5	2.4
15.....								0.3	0.3	0.5	0.5	3.3
16.....								0.4	1.6	0.4	0.4	2.7
17.....								0.4	1.5	0.4	0.5	2.1
18.....								0.5	1.3	0.3	0.5	1.6
19.....								0.4	1.1	0.2	0.6	1.3
20.....								0.3	0.8	0.2	0.5	2.1
21.....								0.3	0.4	0.3	0.6	4.3
22.....								0.2	0.3	0.3	0.7	3.9
23.....								0.1	0.3	0.6	0.6	3.5
24.....								0.2	0.2	0.9	0.7	2.8
25.....								0.1	0.3	1.0	0.7	2.1
26.....								0.3	0.2	1.1	1.5	1.7
27.....								0.3	0.2	0.7	1.6	1.4
28.....								0.2	0.2	0.5	1.2	1.3
29.....								0.2	0.2	0.4	1.0	1.2
30.....								0.3	0.1	0.4	0.8	1.3
31.....								0.4		0.3		2.2
Means.								0.5	0.4	0.8	1.0	1.8

## DESCRIPTION OF RIVER GAGES, ETC.

## APALACHICOLA RIVER SYSTEM—FLINT RIVER, WOODBURY, GA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	2.7	1.7	1.3	5.0	1.1	2.7	2.1	0.8	1.0	0.9	0.4	0.6
2.....	3.7	1.6	1.2	4.4	1.0	3.0	1.6	0.7	1.1	1.4	0.5	0.7
3.....	4.7	1.5	1.2	7.6	1.0	2.8	1.5	0.7	0.9	1.4	0.5	0.9
4.....	4.4	3.7	1.2	6.4	1.0	2.5	1.2	0.5	0.8	2.7	0.6	1.0
5.....	3.5	4.8	1.1	5.2	0.9	1.9	0.9	0.7	0.6	1.7	0.5	1.0
6.....	2.6	5.4	1.1	3.7	0.9	1.6	0.9	1.0	0.6	1.1	0.5	0.9
7.....	2.1	4.3	1.0	2.6	0.8	1.8	1.6	1.5	0.5	0.8	0.6	0.8
8.....	1.8	3.0	1.0	2.1	0.9	2.6	1.1	1.2	0.5	0.7	0.6	0.7
9.....	1.6	3.4	1.2	1.8	0.8	3.2	1.1	0.9	0.5	0.6	0.5	0.8
10.....	1.5	3.3	2.0	1.6	0.8	1.8	1.0	0.7	0.4	0.7	0.5	0.7
11.....	1.6	2.8	1.8	1.5	0.7	1.4	0.8	0.6	0.4	0.6	0.6	1.1
12.....	3.3	2.4	1.5	1.4	0.7	1.1	0.6	0.8	0.4	0.6	0.5	1.0
13.....	4.2	2.2	1.4	1.6	0.8	1.2	0.5	0.9	0.5	0.5	0.6	0.9
14.....	4.5	2.0	1.2	2.1	1.0	2.1	0.4	0.7	0.8	0.7	0.6	0.8
15.....	3.9	1.7	1.1	2.0	1.1	1.8	0.4	0.9	1.0	0.6	0.6	1.6
16.....	2.9	1.6	1.0	1.9	0.9	1.7	0.6	1.8	1.2	0.5	0.5	3.1
17.....	4.2	1.5	1.0	1.7	0.8	1.6	0.8	3.0	0.9	0.6	0.6	2.2
18.....	3.4	1.4	1.0	1.6	0.9	1.5	1.0	2.5	3.4	0.5	0.5	1.5
19.....	2.3	1.4	1.0	2.8	0.8	1.2	1.4	2.0	4.6	0.5	0.6	1.2
20.....	2.0	1.3	1.1	2.9	1.2	1.1	0.9	1.7	4.8	0.4	0.7	1.0
21.....	1.7	1.3	1.2	2.7	3.1	0.9	0.9	1.9	3.1	0.4	0.8	0.8
22.....	1.6	1.3	1.2	2.3	9.0	0.8	0.8	2.5	1.9	0.5	0.8	0.7
23.....	1.5	1.4	1.1	1.9	10.0	1.2	0.6	6.1	1.2	0.5	0.7	0.8
24.....	1.4	1.5	1.6	1.7	8.0	1.4	0.5	8.0	0.9	0.4	0.6	1.1
25.....	1.7	1.5	1.7	1.4	5.0	1.0	0.4	7.0	0.8	0.5	0.5	1.2
26.....	1.6	1.6	4.2	1.3	2.8	0.8	0.4	5.6	0.7	0.4	0.6	1.3
27.....	1.5	1.5	4.9	1.3	2.0	0.7	0.4	3.2	0.7	0.4	0.7	1.2
28.....	1.6	1.4	3.6	1.2	1.6	1.0	0.5	4.1	0.8	0.5	0.6	1.5
29.....	1.6	.....	2.8	1.2	1.4	1.3	0.7	2.9	0.8	0.4	0.5	6.2
30.....	1.5	.....	2.1	1.1	1.3	1.5	0.7	2.0	1.0	0.4	0.6	10.6
31.....	1.8	.....	5.6	.....	1.7	.....	0.6	1.3	.....	0.3	.....	10.0
<b>Means.</b>	<b>2.5</b>	<b>2.2</b>	<b>1.8</b>	<b>2.5</b>	<b>2.1</b>	<b>1.6</b>	<b>0.9</b>	<b>2.1</b>	<b>1.2</b>	<b>0.7</b>	<b>0.6</b>	<b>1.9</b>
<b>1902</b>												
1.....	8.0	3.2	12.0	4.6	1.0	0.4	0.1	0.1	0.4	1.4	1.2	1.8
2.....	5.0	8.5	11.0	2.9	1.0	0.5	0.0	0.1	0.3	1.2	0.5	1.7
3.....	2.9	11.0	9.5	2.3	0.9	0.8	0.0	0.0	0.2	0.9	0.4	2.3
4.....	2.0	9.5	5.4	2.0	0.8	0.6	0.2	0.2	0.3	0.6	0.3	3.2
5.....	1.6	8.0	3.0	1.9	0.8	0.5	0.1	0.7	0.7	1.1	0.4	3.0
6.....	1.4	3.6	2.5	1.8	0.7	0.4	0.1	1.5	0.4	1.6	0.5	2.3
7.....	1.3	2.5	2.3	1.7	0.7	0.3	0.1	1.1	0.2	0.8	0.9	1.6
8.....	1.2	2.0	2.1	2.8	0.7	1.8	0.2	0.6	0.1	0.4	1.3	1.3
9.....	1.2	1.7	1.9	2.7	1.2	0.9	0.1	0.3	0.2	0.3	0.9	1.2
10.....	1.1	1.6	1.8	2.3	0.9	0.6	0.2	0.2	0.3	0.2	0.6	0.9
11.....	1.2	1.5	1.7	1.9	0.8	0.5	0.2	0.1	0.4	0.4	0.5	0.8
12.....	1.1	1.4	1.6	1.7	0.7	0.4	1.9	0.3	0.2	0.6	0.4	0.9
13.....	1.0	1.3	1.6	1.5	0.6	0.3	1.0	0.6	0.1	0.6	0.4	1.0
14.....	0.9	1.3	2.0	1.5	0.8	0.3	0.6	0.3	0.1	0.5	0.3	0.9
15.....	1.0	1.6	2.3	1.6	0.7	0.4	0.7	0.2	0.1	0.4	0.3	0.8
16.....	1.0	1.8	2.8	1.5	1.7	1.0	1.3	0.4	0.0	0.3	0.2	1.0
17.....	1.0	1.8	10.0	1.6	2.3	0.8	0.7	0.2	0.0	0.3	0.4	2.0
18.....	1.0	1.6	9.0	2.8	1.7	0.6	0.3	0.1	0.1	0.2	0.9	2.9
19.....	1.0	1.5	6.7	2.4	1.4	0.5	0.2	0.0	0.1	0.1	0.8	3.0
20.....	1.1	1.6	4.0	1.9	1.2	0.4	0.1	0.0	0.0	0.1	0.8	2.0
21.....	1.2	1.9	2.5	1.6	0.9	0.3	0.0	0.0	0.0	0.2	0.7	1.6
22.....	1.6	1.8	2.3	1.4	0.8	0.3	0.1	0.5	0.0	0.2	0.6	1.8
23.....	1.5	1.7	2.1	1.3	0.7	0.2	0.1	0.2	0.0	0.1	0.5	1.6
24.....	1.3	1.6	2.0	1.2	0.6	0.2	0.0	0.1	0.0	0.1	0.4	1.4
25.....	1.2	2.0	2.7	1.3	0.6	0.2	0.0	0.0	1.5	0.0	0.4	1.2
26.....	1.3	2.5	2.5	1.4	0.5	0.1	0.0	0.0	1.6	0.2	2.9	1.1
27.....	1.2	2.6	2.4	1.3	0.6	0.1	0.0	0.0	1.5	1.0	2.8	1.0
28.....	1.2	14.0	4.5	1.2	0.5	0.1	0.0	0.5	1.4	1.5	2.0	1.0
29.....	1.3	.....	8.0	1.1	0.4	0.1	0.1	1.3	1.3	2.0	1.5	0.9
30.....	1.2	.....	8.5	1.1	0.4	0.0	0.2	1.2	1.8	1.7	1.0	1.2
31.....	1.5	.....	6.8	.....	0.3	.....	0.1	0.8	.....	1.4	.....	1.3
<b>Means.</b>	<b>1.6</b>	<b>3.4</b>	<b>4.4</b>	<b>1.9</b>	<b>0.9</b>	<b>0.4</b>	<b>0.3</b>	<b>0.4</b>	<b>0.4</b>	<b>0.7</b>	<b>0.8</b>	<b>1.6</b>

## APALACHICOLA RIVER SYSTEM—FLINT RIVER, WOODBURY, GA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	1.2	1.0	4.7	4.5	1.0	-----	1.0	0.6	0.1	0.2	0.3	0.3
2.....	1.1	0.9	3.7	3.9	0.9	-----	0.9	0.7	0.2	0.2	0.4	0.3
3.....	1.0	0.9	2.9	3.0	1.0	-----	2.5	0.8	0.1	0.2	0.3	0.3
4.....	1.2	1.0	3.0	2.7	1.1	-----	1.1	1.0	0.0	0.2	0.4	0.4
5.....	1.1	1.2	4.2	2.3	1.0	-----	0.9	1.5	0.2	0.2	0.5	0.4
6.....	1.0	1.2	3.6	2.0	0.9	-----	0.8	2.5	0.1	0.1	0.6	0.4
7.....	0.9	1.5	2.9	1.7	2.0	-----	2.0	1.4	0.1	0.2	0.5	0.6
8.....	0.8	13.0	2.4	1.8	1.9	-----	1.2	1.0	0.0	0.5	0.4	0.5
9.....	0.7	11.5	2.2	2.2	1.8	-----	1.3	0.8	0.0	0.8	0.4	0.6
10.....	0.6	10.0	2.4	2.1	1.5	-----	1.0	1.3	0.0	0.5	0.3	0.9
11.....	0.6	9.0	3.0	2.3	1.3	-----	0.9	0.9	0.0	0.3	0.4	0.8
12.....	0.5	9.5	3.1	2.2	1.0	-----	0.8	0.5	0.0	0.3	0.4	0.7
13.....	1.5	7.5	2.6	3.1	1.1	-----	1.7	0.6	0.0	0.2	0.5	0.6
14.....	1.2	5.7	2.0	2.9	1.3	-----	2.8	0.8	0.2	0.2	0.4	0.8
15.....	1.1	3.8	2.1	2.5	4.6	-----	2.4	0.9	5.3	0.1	0.4	0.7
16.....	1.0	2.7	1.9	2.7	6.0	-----	2.0	1.0	5.9	0.2	0.5	0.6
17.....	0.9	7.0	1.8	1.9	4.1	-----	1.6	1.2	4.2	0.6	0.4	0.5
18.....	0.8	6.4	1.7	1.7	2.7	-----	1.0	2.7	2.7	1.0	0.8	0.5
19.....	0.7	5.4	1.6	1.4	1.8	-----	0.6	6.0	1.6	0.7	0.7	0.4
20.....	0.8	3.9	1.5	2.1	1.5	-----	1.0	3.6	1.2	0.5	0.6	0.6
21.....	0.9	2.7	1.5	2.9	1.3	-----	0.6	2.0	0.8	0.4	0.5	0.9
22.....	0.8	2.0	1.8	2.5	1.2	-----	0.4	1.4	0.7	0.4	0.6	0.9
23.....	0.7	1.7	5.6	1.9	1.1	-----	0.2	1.1	0.6	0.3	0.5	0.8
24.....	0.8	1.5	7.5	1.5	1.0	-----	0.1	0.9	0.5	0.3	0.6	0.7
25.....	0.9	1.4	5.8	1.3	0.9	-----	0.2	0.5	0.4	0.2	0.5	0.6
26.....	0.9	1.3	3.7	2.2	0.8	-----	0.8	0.4	0.4	0.3	0.5	0.5
27.....	0.8	1.4	2.2	2.0	0.7	-----	0.6	0.2	0.3	0.2	0.4	0.4
28.....	1.4	3.0	2.5	1.5	0.6	-----	0.4	0.3	0.4	0.2	0.4	0.8
29.....	1.5	-----	4.5	1.2	0.8	-----	0.3	0.2	0.3	0.3	0.4	0.7
30.....	1.3	-----	4.9	1.1	0.9	-----	0.2	0.1	0.3	0.3	0.4	0.7
31.....	1.1	-----	4.5	-----	0.8	-----	0.5	0.3	-----	0.2	-----	0.6
<b>Means.</b>	<b>1.0</b>	<b>4.2</b>	<b>3.2</b>	<b>2.2</b>	<b>1.6</b>	<b>-----</b>	<b>1.0</b>	<b>1.2</b>	<b>0.9</b>	<b>0.3</b>	<b>0.5</b>	<b>0.6</b>
<b>1904</b>												
1.....	0.5	0.9	1.2	0.7	0.4	1.1	0.3	0.4	0.2	-0.2	-0.4	0.1
2.....	0.5	0.9	1.3	0.6	0.4	1.0	0.2	1.3	0.1	-0.3	-0.3	0.2
3.....	0.6	0.8	1.5	0.7	0.5	0.8	0.1	1.1	0.1	-0.3	-0.2	0.3
4.....	0.7	0.7	1.6	0.6	0.5	0.5	0.1	1.2	0.5	-0.3	0.0	0.4
5.....	0.6	0.8	2.0	0.6	0.5	0.3	0.0	2.2	0.8	-0.3	0.0	0.5
6.....	0.5	0.7	2.5	0.7	0.5	1.0	0.0	2.1	0.7	-0.4	0.1	0.9
7.....	0.6	0.8	2.3	0.8	0.4	0.8	0.0	2.2	0.3	-0.4	0.0	0.9
8.....	0.7	2.6	2.2	0.9	0.3	0.6	0.0	8.7	0.2	-0.4	0.0	0.7
9.....	0.6	2.5	2.1	1.9	0.2	0.5	0.1	6.5	0.2	-0.4	-0.1	0.5
10.....	0.8	2.3	1.9	1.4	0.3	0.4	0.1	5.0	0.1	-0.4	0.0	0.5
11.....	1.2	2.8	1.5	1.0	0.3	0.4	0.6	5.0	0.0	-0.4	0.0	0.4
12.....	1.0	2.5	1.3	0.8	0.3	0.0	0.3	3.5	0.0	-0.4	0.0	0.3
13.....	0.9	2.2	1.1	0.7	0.2	0.0	0.2	3.0	0.0	-0.4	0.1	0.3
14.....	0.8	2.0	1.2	0.6	0.1	0.0	0.2	1.2	0.0	-0.4	0.2	0.3
15.....	0.7	1.7	1.4	0.6	0.2	0.0	0.0	1.5	-0.1	-0.4	0.2	0.3
16.....	0.8	1.4	1.2	0.6	0.2	0.0	0.0	1.4	-0.1	-0.4	0.1	0.3
17.....	1.3	1.2	1.0	0.5	0.1	0.0	-0.1	0.9	-0.1	-0.4	0.1	0.3
18.....	1.5	1.1	1.0	0.5	0.2	0.0	-0.1	0.5	-0.1	-0.4	0.1	0.2
19.....	1.4	1.2	0.9	0.4	0.1	0.0	0.1	0.5	-0.2	-0.4	0.1	0.2
20.....	1.2	1.4	0.9	0.5	0.1	0.0	0.1	0.4	-0.2	-0.4	0.0	0.2
21.....	1.0	1.5	0.8	0.4	0.1	0.0	-0.1	0.3	-0.2	-0.4	0.0	0.2
22.....	1.1	2.6	0.9	0.4	0.0	0.0	0.2	0.3	-0.2	-0.4	0.1	0.3
23.....	3.2	3.0	0.9	0.5	0.0	0.0	0.1	0.3	-0.2	-0.4	0.1	0.2
24.....	3.0	2.9	0.9	0.4	0.0	0.0	0.8	0.4	-0.2	-0.5	0.2	0.2
25.....	2.7	2.5	0.8	0.5	0.0	0.0	1.0	0.3	-0.2	-0.4	0.2	0.4
26.....	1.9	2.0	0.9	0.4	0.0	0.0	0.4	0.7	-0.3	-0.4	0.1	0.5
27.....	1.5	1.9	0.9	0.5	0.0	0.0	0.2	0.1	-0.2	-0.4	0.1	0.6
28.....	1.2	1.4	0.8	0.4	0.0	0.0	0.1	0.3	-0.2	-0.4	0.1	1.3
29.....	1.1	1.2	0.9	0.4	0.0	0.4	0.0	0.6	-0.2	-0.4	0.1	1.5
30.....	1.0	-----	0.8	0.5	0.0	0.4	0.2	0.5	-0.2	-0.4	0.1	1.3
31.....	0.9	-----	0.8	-----	1.0	-----	-----	0.3	-----	-0.4	-----	1.1
<b>Means.</b>	<b>1.1</b>	<b>1.7</b>	<b>1.3</b>	<b>0.6</b>	<b>0.2</b>	<b>0.3</b>	<b>0.2</b>	<b>1.7</b>	<b>0.0</b>	<b>-0.4</b>	<b>0.0</b>	<b>4.5</b>

## DESCRIPTION OF RIVER GAGES, ETC.

## APALACHICOLA RIVER SYSTEM—FLINT RIVER, OAKFIELD, GA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1						2.2	6.0	1.6	1.8	1.8	1.1	1.7
2						2.1	5.8		2.1	1.7	1.1	1.6
3						3.0	5.4	1.8	1.7	1.6	1.4	1.5
4						3.9	4.4	1.7	1.4	1.6	1.9	1.5
5						5.1	4.3	2.3	1.5	1.6	3.2	1.5
6						5.9	4.5	2.8	1.5	1.6	4.5	1.5
7						7.8	4.6	3.4	1.5	1.5	4.3	1.5
8						8.3	4.2	5.0	1.4	1.5	3.3	1.6
9						8.4	4.7		1.2	1.4	2.7	1.7
10						8.1	5.0	5.3	1.1	1.2	2.2	1.9
11						8.8	5.3	3.5	1.0	1.4	1.9	2.0
12						7.4		3.0	1.0	1.5	2.0	2.1
13						5.0	6.8	3.0	0.9	1.3	2.2	2.3
14						4.0	5.6	2.6	2.0	1.2	2.4	2.4
15						3.0	5.6	2.7	3.5	1.2	2.4	2.2
16						2.5	5.0		7.0	1.1	2.2	2.1
17						2.2	5.1	3.7	7.3	1.2	2.0	2.0
18						2.1	4.6	5.8	7.8	1.8	2.0	1.9
19						2.0	3.9	6.2	9.3	2.0	2.0	1.9
20						2.0	3.1	6.5	11.8	2.4	2.2	1.9
21						1.8	2.5	6.8	13.4	2.6	2.2	2.0
22						1.7	2.0	6.9	13.2	2.0	2.3	1.9
23						2.0	1.8		10.8	1.7	2.0	2.0
24						2.6	1.7	7.8	6.0	1.5	2.0	2.1
25						2.9	1.8	8.0	3.0	1.4	1.9	2.3
26						2.6		6.2	2.6	1.3	1.8	3.1
27						2.5	2.5	3.3	2.4	1.3	2.0	4.2
28						2.5	2.8	2.5	2.2	1.2	2.0	4.6
29						4.6	2.5	2.2	2.0	1.1	1.9	4.4
30						5.5	1.9		1.8	1.0	1.8	3.6
31							1.7	1.7		0.9		3.0
<b>Means.</b>						4.1	4.0	4.1	4.1	1.5	2.2	2.3
<b>1904</b>												
1	2.7	3.7	5.0	2.3								
2	2.4	3.3	4.0	2.2								
3	2.3	3.3	3.9	2.1								
4	2.3	3.0	3.9	2.0								
5	2.5	2.9	4.0	1.9								
6	2.6	2.7	4.2	1.8								
7	2.6	3.0	4.6	1.9								
8	2.6	3.3	4.6	2.2								
9	2.6	4.0	4.7	2.9								
10	2.8	6.5	5.0	3.1								
11	3.3	9.0	5.3	3.2								
12	3.7	10.4	5.3	3.3								
13	4.1	10.5	4.5	2.9								
14	4.1	10.2	4.0	2.4								
15	3.8	10.0	3.8	2.1								
16	3.7	9.7	3.7	1.8								
17	3.3	9.6	3.7	1.7								
18	3.2	8.0	3.7	1.8								
19	3.4	5.6	3.5									
20	3.7	4.8	3.1									
21	3.7	5.0	3.0									
22	3.5	5.6	2.9									
23	4.0	6.2	2.7									
24	5.4	6.2	2.7									
25	5.7	6.1	2.6									
26	6.0	6.4	2.7									
27	6.4	6.6	2.8									
28	6.6	6.2	2.8									
29	6.6	5.6	2.8									
30	5.3		2.8									
31	4.0		2.6									
<b>Means.</b>	3.8	6.1	3.7	2.3								

## APALACHICOLA RIVER SYSTEM—FLINT RIVER, REYNOLDS, GA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	1.3	1.3	8.7	5.1	-----	-----	-----	-----	-----	-----	-----	-----
2.....	1.5	0.9	10.0	4.4	-----	-----	-----	-----	-----	-----	-----	-----
3.....	1.5	0.9	9.4	4.0	-----	-----	-----	-----	-----	-----	-----	-----
4.....	1.5	1.2	8.1	3.9	-----	-----	-----	-----	-----	-----	-----	-----
5.....	1.5	4.8	6.4	3.7	-----	-----	-----	-----	-----	-----	-----	-----
6.....	1.2	4.0	5.8	3.5	-----	-----	-----	-----	-----	-----	-----	-----
7.....	1.0	3.2	5.0	3.4	-----	-----	-----	-----	-----	-----	-----	-----
8.....	1.0	3.0	4.9	3.0	-----	-----	-----	-----	-----	-----	-----	-----
9.....	1.0	2.8	6.0	3.0	-----	-----	-----	-----	-----	-----	-----	-----
10.....	1.1	7.4	6.5	2.8	-----	-----	-----	-----	-----	-----	-----	-----
11.....	1.4	13.4	6.4	2.7	-----	-----	-----	-----	-----	-----	-----	-----
12.....	3.4	14.5	5.8	3.9	-----	-----	-----	-----	-----	-----	-----	-----
13.....	4.1	16.6	5.0	6.2	-----	-----	-----	-----	-----	-----	-----	-----
14.....	3.5	16.5	6.5	6.7	-----	-----	-----	-----	-----	-----	-----	-----
15.....	3.0	16.0	6.7	5.3	-----	-----	-----	-----	-----	-----	-----	-----
16.....	2.2	15.1	6.8	4.1	-----	-----	-----	-----	-----	-----	-----	-----
17.....	1.9	13.6	9.0	3.7	-----	-----	-----	-----	-----	-----	-----	-----
18.....	1.9	12.4	7.2	3.2	-----	-----	-----	-----	-----	-----	-----	-----
19.....	2.5	9.9	5.7	12.8	-----	-----	-----	-----	-----	-----	-----	-----
20.....	4.5	8.4	7.7	13.5	-----	-----	-----	-----	-----	-----	-----	-----
21.....	4.9	7.3	8.3	12.5	-----	-----	-----	-----	-----	-----	-----	-----
22.....	4.5	6.6	7.3	13.2	-----	-----	-----	-----	-----	-----	-----	-----
23.....	3.9	7.2	6.3	12.8	-----	-----	-----	-----	-----	-----	-----	-----
24.....	2.9	6.7	7.3	11.7	-----	-----	-----	-----	-----	-----	-----	-----
25.....	2.4	6.5	9.9	11.1	-----	-----	-----	-----	-----	-----	-----	-----
26.....	2.0	6.5	10.3	8.0	-----	-----	-----	-----	-----	-----	-----	-----
27.....	1.7	6.1	9.9	7.0	-----	-----	-----	-----	-----	-----	-----	-----
28.....	1.5	7.0	9.2	6.0	-----	-----	-----	-----	-----	-----	-----	-----
29.....	1.4	-----	8.6	5.5	-----	-----	-----	-----	-----	-----	-----	-----
30.....	1.2	-----	7.4	5.0	-----	-----	-----	-----	-----	-----	-----	-----
31.....	1.1	-----	6.2	-----	-----	-----	-----	-----	-----	-----	-----	-----
Means.	2.2	7.8	7.4	6.4	-----	-----	-----	-----	-----	-----	-----	-----

## APALACHICOLA RIVER SYSTEM—FLINT RIVER, ALBANY, GA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	4.7	1.8	9.1	11.1	9.4	1.1	15.8	4.2	1.3	0.9	3.0	2.5
2.....	4.3	1.9	9.2	10.0	10.2	1.3	16.0	4.2	1.5	1.0	3.4	1.9
3.....	3.8	2.3	9.3	9.1	11.1	1.3	16.0	3.8	1.9	1.0	3.7	1.8
4.....	3.3	2.3	9.5	8.3	11.0	1.2	15.2	3.4	2.4	1.2	3.9	2.3
5.....	2.9	2.6	9.6	7.2	10.3	1.4	13.0	2.8	2.9	1.6	4.6	2.7
6.....	2.6	2.9	9.3	6.1	9.7	1.7	10.3	2.2	3.4	1.9	5.1	2.9
7.....	2.3	3.4	9.2	5.9	6.2	2.1	7.0	1.6	3.7	2.1	4.8	3.4
8.....	1.7	3.8	8.9	5.4	4.7	2.5	6.1	1.0	3.7	2.9	4.9	3.8
9.....	1.3	4.8	9.1	4.7	3.8	2.9	5.3	0.8	3.8	3.1	5.6	4.1
10.....	4.2	6.4	9.2	4.3	3.9	3.5	4.9	1.2	3.6	3.1	3.7	4.7
11.....	1.2	9.8	9.1	4.3	4.5	3.5	4.0	1.0	3.7	3.1	2.9	5.2
12.....	1.7	14.3	9.0	4.3	4.9	3.6	3.8	0.8	3.6	3.7	2.1	6.1
13.....	2.3	18.1	8.9	4.5	5.2	3.8	4.4	0.8	3.7	3.9	1.7	6.9
14.....	2.8	20.0	8.9	4.7	5.2	4.3	4.9	0.8	3.9	4.1	1.3	7.1
15.....	3.3	21.3	9.7	4.9	5.1	3.4	5.0	0.9	4.3	4.5	1.2	7.1
16.....	3.1	22.4	10.5	5.4	4.6	2.0	5.4	0.8	4.5	4.2	1.2	7.4
17.....	2.9	26.2	10.8	5.9	4.1	2.1	5.8	1.0	4.6	4.2	1.1	7.4
18.....	2.8	29.0	11.2	7.8	3.8	2.4	4.6	1.2	4.6	4.3	0.9	7.8
19.....	2.8	29.0	11.2	8.6	3.1	2.4	3.1	1.2	4.3	4.3	0.9	8.2
20.....	2.9	28.1	12.1	10.7	2.6	2.4	2.4	1.3	4.1	4.2	0.9	8.5
21.....	3.0	26.4	12.2	11.2	2.4	2.5	1.6	1.4	3.7	4.3	1.0	8.9
22.....	3.3	23.1	12.1	12.1	2.0	2.8	1.4	1.2	3.5	4.3	1.3	8.9
23.....	3.4	21.0	12.1	13.6	2.0	2.9	1.5	1.0	3.5	4.4	1.4	9.1
24.....	3.7	17.2	12.2	14.3	1.9	3.3	1.6	0.9	3.1	4.5	1.5	9.0
25.....	3.5	13.3	12.2	14.9	1.7	3.9	1.4	0.9	2.7	4.2	1.7	9.0
26.....	3.1	11.2	16.3	15.2	1.4	4.2	1.7	0.9	2.3	4.0	2.2	8.7
27.....	2.5	9.0	16.9	12.1	1.3	5.3	1.6	0.8	1.1	3.7	2.4	8.6
28.....	2.2	9.0	16.0	11.3	1.2	7.5	1.9	0.8	1.0	3.6	2.7	8.4
29.....	2.0	-----	15.1	9.0	1.2	8.2	2.7	0.9	1.0	3.4	2.7	8.9
30.....	1.9	-----	13.4	8.9	1.0	12.5	2.9	0.9	0.9	3.2	2.8	9.4
31.....	1.8	-----	11.6	-----	1.0	-----	3.9	1.1	-----	3.1	-----	10.3
Means.	2.7	13.6	11.1	8.5	4.5	3.4	5.3	1.5	3.1	3.3	2.6	8.5

To reduce to zero of gage in use after June 17, 1902, add 0.8 foot.

## DESCRIPTION OF RIVER GAGES, ETC.

## APALACHICOLA RIVER SYSTEM—FLINT RIVER, ALBANY, GA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	14.0	4.9	6.1	19.2	5.2	8.9	2.5	0.7	9.8	5.6	4.1	4.0
2.....	15.9	5.7	6.3	20.1	4.9	9.4	2.9	0.9	10.0	7.2	4.0	3.8
3.....	17.6	6.9	6.5	20.9	4.3	9.8	2.5	1.3	9.5	7.8	4.0	3.6
4.....	18.1	7.1	6.9	21.6	4.1	10.4	2.3	1.6	9.4	8.4	4.0	3.4
5.....	18.0	8.0	6.1	21.8	3.2	10.9	2.6	1.9	9.2	8.4	4.3	3.2
6.....	17.1	8.4	5.2	21.4	3.0	11.2	3.1	2.3	9.2	7.6	4.4	3.2
7.....	16.8	8.7	4.3	21.2	3.0	11.0	3.7	2.3	8.8	7.4	4.5	3.8
8.....	17.2	9.8	4.1	21.0	2.3	11.0	4.1	2.3	8.2	7.1	4.2	3.9
9.....	15.0	10.9	4.3	20.3	2.2	10.3	4.8	2.8	8.2	6.4	4.1	4.1
10.....	14.2	12.3	4.9	19.7	2.4	9.6	4.5	3.0	8.0	5.8	3.8	3.7
11.....	13.1	14.0	5.2	19.1	2.6	8.4	3.9	3.2	7.6	5.4	3.6	3.5
12.....	9.3	14.4	5.9	18.2	2.5	8.9	3.2	3.2	7.1	4.2	3.3	3.3
13.....	8.1	14.9	6.3	18.0	2.3	9.8	2.8	3.0	7.1	3.8	3.3	3.1
14.....	8.1	15.3	6.9	18.0	1.9	10.3	2.3	3.0	7.2	2.9	3.3	2.9
15.....	8.0	14.1	7.2	17.1	1.9	10.8	1.9	3.4	7.4	2.8	3.1	2.9
16.....	7.8	13.7	7.8	16.3	1.8	10.1	1.8	3.8	7.6	2.5	2.6	3.8
17.....	6.9	12.1	7.6	15.8	2.1	9.3	1.7	4.6	8.9	1.8	2.4	4.1
18.....	6.5	10.4	7.4	12.4	2.4	9.6	1.7	5.4	12.8	1.9	1.9	5.8
19.....	6.2	9.1	7.6	11.1	2.7	9.6	1.9	5.8	16.9	1.7	1.6	5.9
20.....	6.0	9.7	7.9	11.6	3.6	9.1	2.4	6.4	21.0	1.6	1.2	6.4
21.....	5.8	10.1	8.3	11.9	3.7	8.3	2.6	6.8	25.0	1.4	0.9	6.9
22.....	5.5	9.3	7.9	11.9	3.9	7.1	2.8	7.7	25.2	1.3	0.7	7.2
23.....	5.5	8.0	7.6	10.8	4.1	7.1	3.2	8.4	24.6	1.3	0.9	8.1
24.....	5.5	8.7	7.6	9.7	4.3	6.2	4.1	8.6	22.1	0.9	1.4	8.6
25.....	5.4	8.9	7.2	8.4	4.5	4.9	4.1	8.6	19.4	0.9	1.7	9.1
26.....	5.0	7.6	8.1	7.6	4.9	3.4	3.6	9.1	15.8	1.2	2.1	9.1
27.....	5.0	7.1	10.4	6.9	5.3	3.1	3.1	9.1	13.2	1.5	2.4	8.9
28.....	4.8	6.2	11.5	6.9	6.1	2.3	2.3	9.4	9.6	1.9	2.7	7.4
29.....	4.4	-----	13.3	6.1	6.5	2.1	1.6	9.4	7.4	2.4	3.8	7.2
30.....	4.2	-----	15.1	5.3	7.3	2.3	1.2	9.5	6.1	3.6	4.1	6.9
31.....	4.0	-----	17.0	-----	8.6	-----	0.9	9.6	-----	3.9	-----	6.4
<b>Means.</b>	<b>9.6</b>	<b>9.9</b>	<b>7.7</b>	<b>15.0</b>	<b>3.8</b>	<b>8.2</b>	<b>2.8</b>	<b>5.1</b>	<b>11.7</b>	<b>3.9</b>	<b>2.9</b>	<b>5.3</b>

To reduce to zero of gage in use after June 17, 1902, add 0.8 foot.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	6.1	3.1	8.9	8.2	4.1	3.6	2.6	3.0	2.3	2.2	1.8	2.2
2.....	5.4	4.3	11.1	8.6	4.1	2.9	2.3	3.0	2.0	2.0	1.7	3.6
3.....	6.0	6.1	14.3	9.1	4.2	2.1	2.0	2.8	1.8	1.8	1.6	4.2
4.....	6.2	8.3	18.9	9.1	4.4	1.9	2.0	2.4	1.6	1.7	1.7	6.8
5.....	6.1	11.2	20.2	9.8	4.3	1.8	2.2	2.4	1.6	1.7	1.5	7.3
6.....	5.9	11.9	22.0	10.1	4.4	1.8	2.1	2.5	1.4	1.8	1.1	7.9
7.....	6.8	12.6	22.2	9.2	4.1	1.9	2.8	2.8	1.6	1.7	0.6	8.2
8.....	7.6	13.8	19.0	8.1	3.9	2.2	1.7	3.1	1.4	1.3	0.4	8.9
9.....	8.4	14.1	16.9	8.0	3.2	3.4	1.7	3.1	1.8	1.4	0.2	9.4
10.....	9.2	15.2	14.4	7.2	3.0	3.4	1.6	2.9	2.5	1.2	0.1	9.9
11.....	10.1	15.4	10.5	7.1	3.1	3.6	1.4	2.7	3.2	1.0	0.4	10.4
12.....	11.4	13.3	9.7	6.8	2.9	3.8	1.1	2.7	3.2	0.9	0.6	9.7
13.....	12.6	11.2	9.1	6.5	2.8	3.8	1.3	2.5	3.4	0.8	0.9	8.2
14.....	13.1	9.7	8.8	6.5	2.4	4.2	1.5	2.9	3.4	0.7	0.9	7.6
15.....	13.8	7.1	8.2	6.3	1.9	4.1	2.2	3.8	3.6	0.7	1.1	6.4
16.....	13.6	6.2	10.8	6.8	1.8	3.8	2.1	3.6	3.9	0.7	0.8	6.0
17.....	11.4	5.9	15.6	6.9	1.9	4.2	2.0	3.4	4.3	0.6	0.6	5.4
18.....	10.1	5.3	16.3	6.8	2.3	4.3	1.9	3.4	4.4	0.7	0.4	5.1
19.....	9.4	6.9	14.9	6.9	2.6	3.9	1.8	3.2	3.9	0.5	0.4	4.7
20.....	9.1	7.1	13.4	7.1	2.9	3.7	1.8	3.1	3.7	0.4	0.3	4.4
21.....	7.9	8.2	12.1	7.2	2.4	3.1	1.8	2.9	3.9	0.9	0.1	4.9
22.....	6.4	9.1	11.0	7.3	2.1	2.8	1.9	2.2	4.1	1.2	0.2	5.5
23.....	5.8	9.6	10.7	7.4	1.8	2.6	2.2	2.1	4.0	1.3	0.4	5.7
24.....	4.4	9.0	10.1	7.2	1.9	2.6	2.6	1.9	4.0	1.8	0.4	5.8
25.....	3.9	8.1	10.0	7.1	2.4	2.4	2.9	1.9	3.2	1.9	0.5	6.1
26.....	3.7	7.4	9.8	6.9	2.8	2.3	2.9	1.8	2.8	2.1	0.6	6.3
27.....	3.6	7.1	9.2	6.1	2.9	2.2	3.2	2.0	2.6	2.0	0.9	6.9
28.....	3.6	7.2	8.9	5.8	3.1	2.2	3.4	2.2	2.4	1.8	0.9	7.1
29.....	3.6	-----	8.9	4.9	3.6	2.0	3.4	2.4	2.2	1.7	1.3	6.6
30.....	3.5	-----	8.0	4.1	3.9	2.0	3.4	2.4	2.0	1.6	1.8	5.7
31.....	3.2	-----	7.2	-----	3.9	-----	3.2	2.3	-----	1.9	-----	4.8
<b>Means.</b>	<b>7.5</b>	<b>9.1</b>	<b>12.6</b>	<b>7.3</b>	<b>3.1</b>	<b>3.0</b>	<b>2.2</b>	<b>2.7</b>	<b>2.9</b>	<b>1.4</b>	<b>0.8</b>	<b>6.5</b>

To reduce to zero of gage in use after June 17, 1902, add 0.8 foot to all readings from January 1 to June 17, inclusive.

## APALACHICOLA RIVER SYSTEM—FLINT RIVER, ALBANY, GA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	4.1	4.5	8.1	14.1	7.6	4.2	6.5	2.7	2.5	2.6	0.8	3.4
2.....	3.5	4.9	7.0	14.6	7.1	4.1	6.4	2.5	2.4	2.5	0.8	3.4
3.....	3.0	5.3	7.9	14.0	6.4	4.4	6.2	2.3	1.9	2.3	1.2	3.3
4.....	3.2	5.6	8.5	14.1	5.8	4.9	6.0	2.2	1.6	2.1	2.4	3.3
5.....	3.4	5.4	9.6	13.8	4.2	5.4	5.8	2.1	1.4	2.0	5.3	3.4
6.....	3.9	5.1	10.3	12.4	4.1	5.8	6.2	2.2	1.1	1.1	7.2	3.2
7.....	4.2	5.1	12.1	11.7	4.0	8.1	5.7	2.7	0.8	1.0	7.5	3.0
8.....	4.2	5.0	12.9	11.1	4.6	11.3	5.4	4.2	0.4	1.0	6.9	3.1
9.....	4.2	5.0	12.7	11.1	5.2	12.9	5.2	5.1	0.3	1.4	6.6	3.0
10.....	4.6	5.4	11.9	10.4	6.7	12.6	6.0	6.7	0.5	1.5	5.6	3.0
11.....	4.7	7.2	10.8	9.1	7.3	12.2	6.7	6.2	0.8	1.4	4.9	3.0
12.....	5.2	8.9	9.7	9.8	8.1	12.1	8.0	5.9	1.0	1.7	4.5	2.9
13.....	5.2	15.8	9.5	10.2	9.0	11.0	9.1	5.8	4.5	1.7	4.1	2.7
14.....	5.4	21.6	9.0	11.1	9.4	9.1	8.8	5.9	6.0	1.8	3.9	2.7
15.....	5.4	22.8	8.8	11.3	9.9	7.8	7.1	6.2	7.2	1.8	3.7	2.6
16.....	5.4	24.6	8.8	11.9	11.3	6.5	5.8	6.7	9.6	1.8	3.4	2.6
17.....	5.2	25.0	8.8	12.4	15.7	5.7	5.4	6.1	10.2	1.9	3.4	2.5
18.....	4.7	24.1	9.2	12.4	16.9	5.6	4.8	7.2	13.4	2.3	3.2	2.4
19.....	4.7	22.6	9.6	12.5	16.7	4.4	4.8	7.8	13.6	2.9	3.2	2.6
20.....	4.4	21.8	9.4	12.1	16.4	3.9	4.6	8.2	14.9	3.0	3.4	2.8
21.....	4.4	19.7	8.9	10.8	16.0	3.4	4.3	8.1	15.4	3.4	3.4	2.8
22.....	4.6	16.2	8.7	9.9	15.6	3.2	4.3	8.7	15.5	3.1	3.4	2.9
23.....	4.6	14.1	8.5	8.8	14.9	3.1	4.2	9.3	15.7	2.9	3.4	2.9
24.....	4.1	13.9	8.5	8.2	13.6	3.4	4.2	10.1	12.8	2.3	3.2	3.2
25.....	3.7	12.6	8.1	7.8	11.1	3.8	3.8	10.2	5.9	2.3	3.2	4.9
26.....	3.5	11.2	7.7	7.6	9.2	4.2	3.4	10.0	4.7	2.1	3.2	5.6
27.....	3.3	10.6	8.4	7.4	7.8	4.4	3.2	8.2	4.1	1.9	3.3	6.8
28.....	3.4	9.1	9.1	7.4	6.0	4.6	3.2	6.3	3.5	1.6	3.4	6.8
29.....	3.6	-----	10.8	7.1	5.1	5.4	3.0	4.1	3.2	1.0	3.4	6.8
30.....	4.1	-----	11.7	7.4	4.4	6.7	2.8	3.2	2.9	0.8	3.3	6.9
31.....	4.3	-----	13.6	-----	4.4	-----	2.7	2.9	-----	0.8	-----	7.0
Means.	4.3	12.6	9.6	10.8	9.2	6.5	5.3	5.8	5.9	1.9	3.8	3.7
<b>1904</b>												
1.....	6.4	6.9	8.2	4.2	2.0	0.9	0.5	1.1	5.4	0.0	-0.2	0.5
2.....	6.2	6.7	7.3	3.9	2.0	1.5	1.5	1.6	3.2	0.0	-0.2	0.6
3.....	6.0	6.6	6.7	3.7	1.9	2.6	1.5	1.6	2.3	0.0	-0.2	0.7
4.....	6.0	5.5	6.4	3.6	1.9	2.7	1.1	2.9	1.9	-0.1	0.2	1.6
5.....	6.2	5.5	6.3	3.4	2.4	2.4	0.8	5.5	1.7	-0.2	0.6	2.8
6.....	5.9	5.3	6.6	3.2	2.5	1.9	0.6	5.9	1.6	-0.2	0.9	3.6
7.....	5.2	5.5	7.0	3.3	2.2	1.5	0.5	5.6	1.8	-0.2	1.0	3.6
8.....	4.9	5.7	7.3	4.1	1.9	1.3	0.5	6.4	2.4	-0.2	0.9	3.5
9.....	4.6	5.8	7.3	5.0	1.7	1.1	0.4	7.2	2.4	-0.1	0.7	3.4
10.....	4.8	8.2	7.8	5.4	1.6	1.3	0.4	7.8	2.0	-0.1	0.5	3.1
11.....	4.9	12.1	8.1	5.9	1.6	1.2	0.4	8.3	1.6	-0.1	0.4	2.6
12.....	5.8	16.2	8.1	5.9	1.6	1.0	0.7	9.4	1.2	-0.2	0.4	2.4
13.....	6.9	17.9	7.5	5.4	1.5	0.8	0.9	10.8	1.1	-0.2	0.5	2.0
14.....	7.4	17.7	6.8	4.7	1.3	0.7	1.1	12.2	0.8	-0.2	0.8	1.8
15.....	7.1	17.0	6.4	3.8	1.3	0.6	1.4	13.1	0.7	-0.2	1.1	1.6
16.....	6.7	15.7	6.2	3.4	1.3	0.5	1.0	13.2	0.7	-0.2	1.2	1.5
17.....	6.4	14.4	6.2	3.2	1.4	0.4	0.7	12.1	0.6	-0.2	1.1	1.4
18.....	6.0	13.0	6.1	3.0	1.5	0.3	0.5	8.0	0.5	-0.3	0.9	1.4
19.....	5.8	12.2	5.8	2.7	1.9	0.2	0.4	4.9	0.5	0.3	0.8	1.5
20.....	5.8	10.8	5.2	2.5	1.9	0.2	0.2	4.7	0.4	-0.3	0.7	1.6
21.....	6.0	10.0	5.0	2.4	1.7	0.2	0.2	2.9	0.3	-0.3	0.7	1.6
22.....	6.9	9.5	4.8	2.4	1.4	0.1	0.2	2.5	0.3	-0.3	0.6	1.4
23.....	7.8	10.6	4.5	2.4	1.1	0.3	0.4	2.1	0.3	0.3	0.7	1.3
24.....	8.9	11.0	4.2	2.3	1.0	0.5	0.9	2.0	0.3	-0.3	0.9	1.2
25.....	9.8	10.4	4.2	2.3	0.8	0.5	1.4	2.0	0.2	-0.3	1.1	1.2
26.....	9.8	10.4	4.1	2.2	0.8	0.4	1.2	2.2	0.2	-0.4	1.1	1.2
27.....	10.0	9.9	4.5	2.2	0.7	0.4	1.0	2.8	0.2	-0.4	1.0	1.2
28.....	10.0	9.4	5.0	2.1	0.6	0.3	1.2	4.0	0.1	-0.4	0.9	1.6
29.....	10.2	9.0	4.9	2.0	0.5	0.3	1.0	4.1	0.1	-0.3	0.7	2.3
30.....	8.4	-----	4.8	2.0	0.6	0.3	0.7	6.0	0.1	-0.3	0.6	3.2
31.....	6.9	-----	4.3	-----	0.9	-----	1.0	6.4	-----	-0.2	-----	4.1
Means.	6.9	10.3	6.1	3.4	1.5	0.9	0.8	5.8	1.2	-0.2	0.7	2.0

## DESCRIPTION OF RIVER GAGES, ETC.

## APALACHICOLA RIVER SYSTEM—FLINT RIVER, MONTEZUMA, GA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.										1.5	1.1	2.0
2.										1.4	1.1	2.2
3.										1.4	1.4	3.0
4.										1.3	1.9	5.1
5.										1.4	2.2	5.2
6.										1.4	2.5	4.8
7.										1.4	2.2	4.6
8.										1.4	2.0	4.6
9.										1.4	1.9	4.6
10.										1.3	1.8	4.6
11.										1.3	1.7	4.5
12.										1.2	1.7	4.0
13.										1.2	2.0	3.6
14.										1.1	2.4	3.3
15.										1.1	2.6	3.0
16.										1.1	2.4	2.8
17.										1.0	2.3	2.8
18.										1.0	2.3	2.8
19.										1.0	2.2	3.0
20.										1.0	2.1	3.3
21.										1.0	2.0	2.9
22.										1.0	2.0	2.8
23.										1.0	2.1	2.8
24.										1.0	2.3	2.8
25.										1.0	2.3	2.8
26.										1.0	2.4	2.8
27.										1.0	2.2	2.8
28.										1.1	2.2	3.0
29.										1.2	2.1	5.9
30.										1.2	2.0	6.3
31.										1.2		5.8
Means.										1.2	2.0	3.7

## APALACHICOLA RIVER SYSTEM—FLINT RIVER, BAINBRIDGE, GA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.											1.4	2.3
2.											1.5	2.3
3.											1.7	2.3
4.											1.7	2.4
5.											1.7	2.9
6.											2.0	3.6
7.										1.9	2.3	4.3
8.										1.8	2.5	4.7
9.										1.8	2.5	4.8
10.										1.8	2.4	4.8
11.										1.8	2.2	4.6
12.										1.8	2.1	4.3
13.										1.8	2.1	4.0
14.										1.7	2.1	3.7
15.										1.7	2.2	3.5
16.										1.7	2.5	3.3
17.										1.6	2.7	3.2
18.										1.6	2.7	3.1
19.										1.5	2.6	3.0
20.										1.5	2.5	3.0
21.										1.5	2.4	3.0
22.										1.4	2.4	3.1
23.										1.4	2.3	3.0
24.										1.4	2.3	3.0
25.										1.4	2.4	2.9
26.										1.4	2.6	2.8
27.										1.4	2.7	2.8
28.										1.4	2.7	2.9
29.										1.4	2.6	3.0
30.										1.4	2.5	3.5
31.										1.4		4.2
Means.										1.6	2.3	3.4



## DESCRIPTION OF RIVER GAGES, ETC.

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## APALACHICOLA RIVER SYSTEM—CHATTAHOOCHEE RIVER, OAKDALE, GA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	1.0	1.0	4.5	3.4	5.0	3.0	5.0	5.0	2.1	2.1	2.4	2.2
2.....	0.7	1.0	5.9	3.1	4.8	3.7	4.5	4.5	2.0	2.1	2.4	2.2
3.....	0.5	0.9	4.3	3.0	4.5	4.0	6.0	4.0	2.0	2.1	3.0	2.1
4.....	0.5	0.9	3.6	2.9	4.0	4.7	7.5	4.0	1.9	3.0	2.8	2.3
5.....	0.9	2.9	3.3	2.9	3.9	4.0	7.0	4.0	1.9	3.4	2.7	4.1
6.....	1.2	3.5	3.1	2.8	3.0	3.8	6.5	3.5	1.8	3.8	2.5	4.0
7.....	1.3	2.2	3.0	2.8	3.0	4.7	6.2	3.5	1.8	4.0	2.5	4.0
8.....	1.3	1.9	8.8	2.7	3.0	9.7	6.0	3.5	1.8	4.0	2.5	3.8
9.....	1.2	3.8	7.9	2.7	2.9	10.5	5.8	3.0	1.7	3.9	2.4	3.7
10.....	1.1	4.3	6.9	2.6	2.9	8.0	5.7	3.0	1.7	3.5	2.4	3.5
11.....	2.0	7.4	5.5	3.0	2.8	5.0	5.6	3.0	1.5	3.5	2.4	2.1
12.....	3.9	8.0	4.0	6.4	2.7	4.0	5.4	3.0	1.5	3.9	2.4	2.0
13.....	3.0	15.5	3.1	5.4	2.7	4.5	5.2	3.0	4.3	4.3	2.3	2.0
14.....	2.8	20.7	3.2	4.2	2.6	4.0	5.0	3.0	8.4	4.2	2.2	2.3
15.....	2.2	16.4	3.0	3.8	2.6	3.5	4.5	3.0	10.2	4.0	2.1	2.3
16.....	1.9	6.0	5.0	3.3	2.6	3.0	4.4	2.7	8.2	3.6	2.1	2.2
17.....	1.7	4.8	3.6	4.0	2.5	3.5	4.3	3.5	6.0	3.4	2.0	2.1
18.....	1.8	3.8	3.0	6.9	3.5	4.5	4.2	4.0	3.1	3.2	2.0	2.1
19.....	2.9	3.5	4.5	9.0	3.7	6.0	4.1	3.5	3.0	3.0	1.8	2.0
20.....	4.0	3.1	5.9	7.3	3.0	6.5	4.0	3.5	2.8	3.0	1.5	2.3
21.....	5.8	3.0	6.6	6.3	3.1	8.0	3.9	3.0	2.8	2.8	1.5	2.6
22.....	4.8	4.2	4.8	7.0	3.2	9.0	3.8	3.0	2.7	3.0	1.8	2.8
23.....	2.9	4.3	4.1	6.3	3.7	16.6	3.7	3.0	2.5	3.3	2.0	2.7
24.....	3.0	3.8	3.5	13.6	3.9	18.0	3.7	3.0	2.3	3.3	1.9	3.0
25.....	2.6	4.1	7.7	9.5	3.7	17.5	4.0	2.7	2.3	3.0	1.8	2.8
26.....	1.9	4.0	7.5	6.0	3.5	11.4	5.0	2.7	2.0	3.0	1.8	2.7
27.....	1.7	3.3	6.0	5.5	3.4	10.5	6.0	2.6	2.0	2.9	5.6	2.5
28.....	1.5	3.0	4.5	5.0	3.2	7.5	6.5	2.5	1.8	2.8	3.3	2.3
29.....	1.5	-----	4.0	5.0	3.0	6.0	7.4	3.0	1.5	2.6	2.3	2.3
30.....	1.4	-----	3.8	5.0	2.5	5.5	10.0	3.0	1.5	2.4	2.0	3.0
31.....	1.3	-----	3.5	-----	2.4	-----	6.0	2.7	-----	2.4	-----	3.8
Means.	2.1	5.0	4.8	5.0	3.3	7.0	5.4	3.3	3.0	3.2	2.3	2.7
<b>1901</b>												
1.....	2.1	4.3	2.4	4.5	3.1	6.8	4.9	2.6	6.0	3.7	1.7	1.6
2.....	2.3	4.4	2.4	4.5	3.1	6.6	4.1	2.3	5.0	4.6	1.7	1.6
3.....	2.3	5.0	2.3	4.7	3.1	6.0	3.9	2.1	4.8	4.2	1.6	1.8
4.....	2.2	5.2	2.3	4.5	3.0	6.0	3.0	1.9	4.6	3.9	1.8	1.8
5.....	2.2	5.0	2.3	4.3	3.0	5.3	2.9	1.8	4.4	3.6	1.8	1.7
6.....	2.2	4.7	2.1	4.0	2.9	4.7	2.8	2.2	4.0	3.1	1.8	1.8
7.....	2.1	4.1	2.1	4.0	2.9	4.3	2.8	9.9	3.7	2.9	1.7	1.8
8.....	2.1	4.0	2.1	3.7	3.0	4.0	2.7	3.2	3.6	2.8	1.7	1.7
9.....	2.5	4.2	2.2	3.7	3.0	3.6	2.7	3.0	3.6	2.8	1.7	1.7
10.....	3.0	4.1	3.3	3.7	3.0	3.4	2.6	2.9	3.6	2.7	1.7	1.7
11.....	9.0	4.0	6.5	3.7	3.0	3.2	2.6	5.1	3.8	2.7	1.7	1.7
12.....	19.9	3.6	5.5	6.4	3.0	3.4	2.5	4.0	3.7	2.7	1.6	1.7
13.....	22.0	3.2	4.4	12.0	3.1	3.8	2.2	4.2	3.6	3.8	1.6	1.6
14.....	16.0	3.1	3.4	9.5	3.0	5.1	2.1	4.4	3.9	3.2	1.6	1.8
15.....	8.4	3.0	3.2	7.0	3.0	10.0	2.1	5.6	3.7	2.9	1.6	2.6
16.....	5.1	2.9	3.2	5.3	2.9	9.8	2.2	9.8	3.7	2.8	1.7	2.0
17.....	4.4	2.9	3.0	5.0	2.8	8.3	9.1	10.5	3.8	2.8	1.6	1.8
18.....	4.0	2.8	3.0	6.1	2.8	7.1	5.0	9.3	14.6	2.8	1.6	1.7
19.....	4.0	2.8	3.0	7.7	2.7	4.2	3.9	9.2	7.2	2.7	1.7	1.7
20.....	3.8	2.7	3.0	7.0	3.2	3.9	9.0	9.8	4.3	2.7	1.9	1.7
21.....	3.7	2.7	3.2	5.8	7.1	3.7	4.2	10.8	3.9	2.7	1.8	1.7
22.....	3.7	2.6	3.2	6.0	18.7	3.5	3.0	17.5	3.9	2.5	1.7	1.7
23.....	3.4	2.6	3.1	5.4	20.0	3.4	2.9	19.8	3.8	2.3	1.8	1.7
24.....	3.7	2.5	3.2	5.1	7.8	3.2	2.7	16.4	3.8	2.1	1.8	1.9
25.....	3.8	2.5	5.3	4.8	6.0	3.2	2.6	10.3	3.6	2.0	1.8	1.8
26.....	3.5	2.5	10.5	4.8	5.2	4.9	2.4	10.1	3.4	2.0	1.8	1.8
27.....	3.6	2.4	23.5	4.5	4.0	4.2	2.8	9.8	3.1	1.8	1.7	1.8
28.....	3.4	2.4	17.0	4.2	3.7	3.9	2.6	9.1	2.9	1.7	1.7	2.4
29.....	3.1	-----	9.5	3.5	3.1	3.9	2.7	8.7	3.2	1.7	1.7	22.0
30.....	4.6	-----	7.3	3.1	3.1	3.8	3.1	6.8	3.6	1.7	1.6	35.0
31.....	4.3	-----	5.0	-----	7.1	-----	3.0	6.6	-----	1.7	-----	27.6
Means.	5.2	3.4	4.9	5.3	4.7	4.9	3.4	7.4	4.4	2.8	1.7	4.4

## DESCRIPTION OF RIVER GAGES, ETC.

## APALACHICOLA RIVER SYSTEM—FLINT RIVER, MONTEZUMA, GA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1904</b>												
1.										1.5	1.1	2.0
2.										1.4	1.1	2.2
3.										1.4	1.4	3.0
4.										1.3	1.9	5.1
5.										1.4	2.2	5.2
6.										1.4	2.5	4.8
7.										1.4	2.2	4.6
8.										1.4	2.0	4.6
9.										1.4	1.9	4.6
10.										1.3	1.8	4.6
11.										1.3	1.7	4.5
12.										1.2	1.7	4.0
13.										1.2	2.0	3.6
14.										1.1	2.4	3.3
15.										1.1	2.6	3.0
16.										1.1	2.4	2.8
17.										1.0	2.3	2.8
18.										1.0	2.3	2.8
19.										1.0	2.2	3.0
20.										1.0	2.1	3.3
21.										1.0	2.0	2.9
22.										1.0	2.0	2.8
23.										1.0	2.1	2.8
24.										1.0	2.3	2.8
25.										1.0	2.3	2.8
26.										1.0	2.4	2.8
27.										1.0	2.2	2.8
28.										1.1	2.2	3.0
29.										1.2	2.1	5.9
30.										1.2	2.0	6.3
31.										1.2		5.8
<b>Means.</b>										1.2	2.0	3.7

## APALACHICOLA RIVER SYSTEM—FLINT RIVER, BAINBRIDGE, GA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1904</b>												
1.											1.4	2.3
2.											1.5	2.3
3.											1.7	2.3
4.											1.7	2.4
5.											1.7	2.9
6.											2.0	3.6
7.										1.9	2.3	4.3
8.										1.8	2.5	4.7
9.										1.8	2.5	4.8
10.										1.8	2.4	4.8
11.										1.8	2.2	4.6
12.										1.8	2.1	4.3
13.										1.8	2.1	4.0
14.										1.7	2.1	3.7
15.										1.7	2.2	3.5
16.										1.7	2.5	3.3
17.										1.6	2.7	3.2
18.										1.6	2.7	3.1
19.										1.5	2.6	3.0
20.										1.5	2.5	3.0
21.										1.5	2.4	3.0
22.										1.4	2.4	3.1
23.										1.4	2.3	3.0
24.										1.4	2.3	3.0
25.										1.4	2.4	2.9
26.										1.4	2.6	2.8
27.										1.4	2.7	2.8
28.										1.4	2.7	2.9
29.										1.4	2.6	3.0
30.										1.4	2.5	3.5
31.										1.4		4.2
<b>Means.</b>										1.6	2.3	3.4

## APALACHICOLA RIVER SYSTEM—CHATTAHOOCHEE RIVER, OAKDALE, GA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	1.0	1.0	4.5	3.4	5.0	3.0	5.0	5.0	2.1	2.1	2.4	2.2
2.....	0.7	1.0	5.9	3.1	4.8	3.7	4.5	4.5	2.0	2.1	2.4	2.2
3.....	0.5	0.9	4.3	3.0	4.5	4.0	6.0	4.0	2.0	2.1	3.0	2.1
4.....	0.5	0.9	3.6	2.9	4.0	4.7	7.5	4.0	1.9	3.0	2.8	2.3
5.....	0.9	2.9	3.3	2.9	3.9	4.0	7.0	4.0	1.9	3.4	2.7	4.1
6.....	1.2	3.5	3.1	2.8	3.0	3.8	6.5	3.5	1.8	3.8	2.5	4.0
7.....	1.3	2.2	3.0	2.8	3.0	4.7	6.2	3.5	1.8	4.0	2.5	4.0
8.....	1.3	1.9	8.8	2.7	3.0	9.7	6.0	3.5	1.8	4.0	2.5	3.8
9.....	1.2	3.8	7.9	2.7	2.9	10.5	5.8	3.0	1.7	3.9	2.4	3.7
10.....	1.1	4.3	6.9	2.6	2.9	8.0	5.7	3.0	1.7	3.5	2.4	3.5
11.....	2.0	7.4	5.5	3.0	2.8	5.0	5.6	3.0	1.5	3.5	2.4	2.1
12.....	3.9	8.0	4.0	6.4	2.7	4.0	5.4	3.0	1.5	3.9	2.4	2.0
13.....	3.0	15.5	3.1	5.4	2.7	4.5	5.2	3.0	4.3	4.3	2.3	2.0
14.....	2.8	20.7	3.2	4.2	2.6	4.0	5.0	3.0	8.4	4.2	2.2	2.3
15.....	2.2	16.4	3.0	3.8	2.6	3.5	4.5	3.0	10.2	4.0	2.1	2.3
16.....	1.9	6.0	5.0	3.3	2.6	3.0	4.4	2.7	8.2	3.6	2.1	2.2
17.....	1.7	4.8	3.6	4.0	2.5	3.5	4.3	3.5	6.0	3.4	2.0	2.1
18.....	1.8	3.8	3.0	6.9	3.5	4.5	4.2	4.0	3.1	3.2	2.0	2.1
19.....	2.9	3.5	4.5	9.0	3.7	6.0	4.1	3.5	3.0	3.0	1.8	2.0
20.....	4.0	3.1	5.9	7.3	3.0	6.5	4.0	3.5	2.8	3.0	1.5	2.3
21.....	5.8	3.0	6.6	6.3	3.1	8.0	3.9	3.0	2.8	2.8	1.5	2.6
22.....	4.8	4.2	4.8	7.0	3.2	9.0	3.8	3.0	2.7	3.0	1.8	2.8
23.....	2.9	4.3	4.1	6.3	3.7	16.6	3.7	3.0	2.5	3.3	2.0	2.7
24.....	3.0	3.8	3.5	13.6	3.9	18.0	3.7	3.0	2.3	3.3	1.9	3.0
25.....	2.6	4.1	7.7	9.5	3.7	17.5	4.0	2.7	2.3	3.0	1.8	2.8
26.....	1.9	4.0	7.5	6.0	3.5	11.4	5.0	2.7	2.0	3.0	1.8	2.7
27.....	1.7	3.3	6.0	5.5	3.4	10.5	6.0	2.6	2.0	2.9	5.6	2.5
28.....	1.5	3.0	4.5	5.0	3.2	7.5	6.5	2.5	1.8	2.8	3.3	2.3
29.....	1.5	.....	4.0	5.0	3.0	6.0	7.4	3.0	1.5	2.6	2.3	2.3
30.....	1.4	.....	3.8	5.0	2.5	5.5	10.0	3.0	1.5	2.4	2.0	3.0
31.....	1.3	.....	3.5	.....	2.4	.....	6.0	2.7	.....	2.4	.....	3.8
<b>Means.</b>	<b>2.1</b>	<b>5.0</b>	<b>4.8</b>	<b>5.0</b>	<b>3.3</b>	<b>7.0</b>	<b>5.4</b>	<b>3.3</b>	<b>3.0</b>	<b>3.2</b>	<b>2.3</b>	<b>2.7</b>
<b>1901</b>												
1.....	2.1	4.3	2.4	4.5	3.1	6.8	4.9	2.6	6.0	3.7	1.7	1.6
2.....	2.3	4.4	2.4	4.5	3.1	6.6	4.1	2.3	5.0	4.6	1.7	1.6
3.....	2.3	5.0	2.3	4.7	3.1	6.0	3.9	2.1	4.8	4.2	1.6	1.8
4.....	2.2	5.2	2.3	4.5	3.0	6.0	3.0	1.9	4.6	3.9	1.8	1.8
5.....	2.2	5.0	2.3	4.3	3.0	5.3	2.9	1.8	4.4	3.6	1.8	1.7
6.....	2.2	4.7	2.1	4.0	2.9	4.7	2.8	2.2	4.0	3.1	1.8	1.8
7.....	2.1	4.1	2.1	4.0	2.9	4.3	2.8	9.9	3.7	2.9	1.7	1.8
8.....	2.1	4.0	2.1	3.7	3.0	4.0	2.7	3.2	3.6	2.8	1.7	1.7
9.....	2.5	4.2	2.2	3.7	3.0	3.6	2.7	3.0	3.6	2.8	1.7	1.7
10.....	3.0	4.1	3.3	3.7	3.0	3.4	2.6	2.9	3.6	2.7	1.7	1.7
11.....	9.0	4.0	6.5	3.7	3.0	3.2	2.6	5.1	3.8	2.7	1.7	1.7
12.....	19.9	3.6	5.5	6.4	3.0	3.4	2.5	4.0	3.7	2.7	1.6	1.7
13.....	22.0	3.2	4.4	12.0	3.1	3.8	2.2	4.2	3.6	3.8	1.6	1.6
14.....	16.0	3.1	3.4	9.5	3.0	5.1	2.1	4.4	3.9	3.2	1.6	1.8
15.....	8.4	3.0	3.2	7.0	3.0	10.0	2.1	5.6	3.7	2.9	1.6	2.6
16.....	5.1	2.9	3.2	5.3	2.9	9.8	2.2	9.8	3.7	2.8	1.7	2.0
17.....	4.4	2.9	3.0	5.0	2.8	8.3	9.1	10.5	3.8	2.8	1.6	1.8
18.....	4.0	2.8	3.0	6.1	2.8	7.1	5.0	9.3	14.6	2.8	1.6	1.7
19.....	4.0	2.8	3.0	7.7	2.7	4.2	3.9	9.2	7.2	2.7	1.7	1.7
20.....	3.8	2.7	3.0	7.0	3.2	3.9	9.0	9.8	4.3	2.7	1.9	1.7
21.....	3.7	2.7	3.2	5.8	7.1	3.7	4.2	10.8	3.9	2.7	1.8	1.7
22.....	3.7	2.6	3.2	6.0	18.7	3.5	3.0	17.5	3.9	2.5	1.7	1.7
23.....	3.4	2.6	3.1	5.4	20.0	3.4	2.9	19.8	3.8	2.3	1.8	1.7
24.....	3.7	2.5	3.2	5.1	7.8	3.2	2.7	16.4	3.8	2.1	1.8	1.9
25.....	3.8	2.5	5.3	4.8	6.0	3.2	2.6	10.3	3.6	2.0	1.8	1.8
26.....	3.5	2.5	10.5	4.8	5.2	4.9	2.4	10.1	3.4	2.0	1.8	1.8
27.....	3.6	2.4	23.5	4.5	4.0	4.2	2.8	9.8	3.1	1.8	1.7	1.8
28.....	3.4	2.4	17.0	4.2	3.7	3.9	2.6	9.1	2.9	1.7	1.7	2.4
29.....	3.1	.....	9.5	3.5	3.1	3.9	2.7	8.7	3.2	1.7	1.7	22.0
30.....	4.6	.....	7.3	3.1	3.1	3.8	3.1	6.8	3.6	1.7	1.6	35.0
31.....	4.3	.....	5.0	.....	7.1	.....	3.0	6.6	.....	1.7	.....	27.6
<b>Means.</b>	<b>5.2</b>	<b>3.4</b>	<b>4.9</b>	<b>5.3</b>	<b>4.7</b>	<b>4.9</b>	<b>3.4</b>	<b>7.4</b>	<b>4.4</b>	<b>2.8</b>	<b>1.7</b>	<b>4.4</b>

## DESCRIPTION OF RIVER GAGES, ETC.

APALACHICOLA RIVER SYSTEM—CHATTAHOOCHEE RIVER, OAKDALE, GA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	9.2	7.2	25.0	7.1	3.4	3.2	2.6	2.1	2.4	2.1	0.8	2.4
2.....	6.0	18.0	20.8	6.4	3.8	3.1	2.6	1.9	2.1	1.5	0.7	2.6
3.....	5.1	19.2	10.3	6.2	3.8	3.1	3.4	1.8	2.1	1.6	0.7	7.0
4.....	4.2	8.6	7.1	5.8	3.6	3.0	2.8	1.8	2.1	1.8	0.5	8.6
5.....	3.7	6.0	7.8	5.2	3.6	2.8	2.6	1.8	2.4	1.5	0.5	4.9
6.....	3.2	4.3	6.0	4.8	3.6	2.8	2.4	1.8	2.3	1.6	0.7	4.1
7.....	3.1	3.2	5.2	4.9	3.6	2.8	2.4	1.9	2.1	2.1	0.9	3.3
8.....	2.8	2.8	4.6	4.9	3.5	2.8	2.1	1.9	2.0	1.8	0.8	2.4
9.....	2.5	2.8	4.4	5.0	3.5	2.8	2.1	1.8	3.5	1.6	1.0	1.9
10.....	2.3	2.7	4.1	4.4	3.5	2.7	1.8	1.8	3.2	1.5	1.2	1.8
11.....	2.3	2.7	3.8	4.2	3.6	2.7	1.8	1.9	2.8	1.4	1.3	1.6
12.....	2.3	2.8	3.6	4.2	3.8	2.7	3.6	1.8	2.3	1.8	1.0	1.6
13.....	2.3	2.8	5.5	3.8	3.6	2.7	2.4	1.8	2.3	2.1	0.9	1.8
14.....	2.1	2.8	4.8	3.8	3.6	2.6	2.2	1.8	4.8	1.9	0.7	1.6
15.....	2.1	2.8	5.7	3.8	3.6	2.8	2.6	1.7	3.5	1.4	0.6	1.7
16.....	2.1	3.0	11.4	3.6	3.8	5.6	2.4	1.7	2.8	1.6	0.8	5.4
17.....	2.1	3.2	8.0	3.8	3.8	4.2	2.2	1.7	2.4	1.2	0.9	7.0
18.....	2.1	3.1	6.2	4.1	3.8	3.4	2.1	1.7	2.4	1.4	1.3	6.0
19.....	2.3	2.8	5.6	4.1	3.8	4.0	1.8	1.7	2.6	1.5	1.0	4.0
20.....	2.2	2.8	4.8	3.8	3.5	3.6	1.8	1.8	2.6	1.6	1.1	2.7
21.....	2.6	3.0	4.6	3.8	3.5	4.1	2.2	1.8	2.6	1.2	1.0	3.0
22.....	2.6	3.0	4.4	3.8	3.5	4.4	2.0	1.8	2.4	1.0	0.8	2.9
23.....	2.5	2.8	4.1	3.8	3.4	4.2	1.9	1.6	2.1	0.8	0.8	2.4
24.....	2.4	2.8	4.1	3.6	3.2	4.2	1.8	1.6	2.1	0.7	0.9	2.0
25.....	2.4	3.6	3.8	3.6	3.2	3.8	1.8	1.6	5.7	0.5	1.0	1.8
26.....	2.4	3.6	3.8	3.6	3.2	3.8	1.8	1.6	5.8	0.8	4.8	1.7
27.....	2.4	3.8	4.2	3.6	3.2	3.0	1.8	1.5	4.6	0.9	4.3	1.6
28.....	2.8	23.2	6.4	3.6	3.2	2.8	2.6	1.8	7.9	1.0	3.6	1.7
29.....	3.1	.....	21.0	3.4	3.1	2.8	2.7	2.7	5.2	0.9	1.9	2.0
30.....	4.0	.....	21.7	3.5	3.1	2.8	2.5	2.6	3.1	0.7	1.6	3.4
31.....	4.6	.....	9.8	.....	3.1	.....	2.1	2.4	.....	0.5	.....	3.0
Means.	3.1	5.3	7.8	4.3	3.5	3.3	2.3	1.8	3.1	1.4	1.3	3.2
<b>1903</b>												
1.....	2.6	3.0	19.4	10.8	4.7	9.2	3.7	2.5	0.0	0.0	1.0	1.0
2.....	2.8	2.9	12.0	7.9	4.7	8.5	3.5	2.8	0.0	0.0	0.7	1.0
3.....	3.1	3.4	7.2	7.5	4.6	14.8	3.5	6.0	0.0	0.0	1.5	1.0
4.....	2.8	7.6	6.6	6.9	4.6	7.6	3.8	5.0	0.0	0.0	2.5	1.0
5.....	2.5	10.2	5.8	6.7	5.0	14.0	3.5	4.0	0.0	0.0	2.0	1.0
6.....	2.4	6.7	6.4	6.7	4.4	20.0	3.4	3.0	0.0	0.0	3.0	1.0
7.....	2.6	7.7	5.8	6.0	4.5	14.6	5.0	3.0	0.0	0.0	2.0	1.0
8.....	2.8	18.0	5.8	10.0	4.6	8.2	4.0	2.2	0.0	0.5	1.5	1.0
9.....	2.7	15.6	5.5	9.1	4.7	6.2	3.8	2.1	0.0	0.4	1.5	1.0
10.....	2.5	7.8	7.4	7.8	4.0	6.0	3.5	2.1	1.5	0.4	1.3	1.2
11.....	3.3	11.0	12.4	6.5	4.0	6.0	4.5	2.0	1.0	0.4	1.3	1.2
12.....	4.0	16.0	15.0	6.0	4.0	5.4	4.0	3.0	1.0	0.4	1.5	1.0
13.....	4.9	10.6	11.4	6.3	3.8	5.2	8.0	2.8	1.0	0.0	1.4	1.3
14.....	3.8	4.7	7.7	12.5	3.5	4.5	7.0	2.8	1.5	0.0	1.3	1.5
15.....	3.2	5.8	6.8	16.8	3.1	4.0	5.0	3.8	4.0	0.0	1.2	1.5
16.....	2.8	5.8	6.0	7.8	2.3	3.8	4.5	3.6	8.0	0.0	1.2	1.3
17.....	2.5	24.0	5.9	6.8	3.8	3.7	4.0	3.8	7.0	0.0	1.3	1.3
18.....	2.4	25.6	4.8	7.0	3.7	3.5	4.0	3.4	3.5	0.1	1.7	1.3
19.....	2.2	9.4	4.6	6.0	3.4	3.4	3.8	3.4	2.5	0.5	1.5	1.3
20.....	2.1	4.9	5.0	6.4	3.4	3.4	3.5	3.1	1.5	0.4	1.5	1.5
21.....	2.0	2.7	11.4	6.8	3.6	5.0	3.5	2.7	1.5	0.4	1.5	1.6
22.....	2.0	3.0	13.0	5.6	3.2	4.0	3.0	2.7	1.2	0.4	1.3	1.6
23.....	1.9	3.2	21.0	5.3	4.5	3.8	2.0	2.4	0.4	0.3	1.3	1.5
24.....	2.2	3.7	23.4	5.0	4.5	3.5	2.0	2.1	0.4	0.3	1.2	1.5
25.....	2.5	4.1	22.4	5.0	4.3	3.4	2.0	2.1	0.4	0.3	1.1	1.5
26.....	2.4	3.7	8.8	5.3	4.8	3.8	2.0	2.1	0.2	0.0	1.2	1.7
27.....	2.0	4.2	7.5	5.2	5.0	4.0	2.0	0.0	0.0	0.0	1.0	1.7
28.....	2.3	11.4	6.8	4.8	5.0	5.5	1.8	0.0	0.0	0.0	1.0	1.5
29.....	2.7	.....	10.8	4.7	4.8	5.0	1.8	0.0	0.0	0.0	1.0	1.5
30.....	4.5	.....	16.6	4.7	4.6	4.3	2.0	0.0	0.0	0.0	1.0	1.4
31.....	3.4	.....	15.8	.....	2.4	.....	2.5	0.0	.....	0.0	.....	1.3
Means.	2.8	8.5	10.3	7.1	4.1	6.5	3.6	2.5	1.2	0.2	1.4	1.3

## APALACHICOLA RIVER SYSTEM—CHATTAHOOCHEE RIVER, OAKDALE, GA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	1.3	1.6	2.0	2.0	1.5	2.3	2.0	2.0	1.0	0.0	0.0	-----
2.....	1.3	1.5	2.3	2.0	1.5	1.9	2.0	2.0	0.5	0.0	0.0	-----
3.....	1.7	1.7	2.4	1.9	1.4	1.6	0.5	1.8	0.5	0.0	0.0	-----
4.....	1.3	1.5	2.4	1.8	1.4	1.6	1.0	1.6	1.2	0.0	0.0	-----
5.....	1.3	1.5	2.0	1.8	1.4	1.6	0.5	1.3	1.6	0.0	0.0	-----
6.....	1.3	1.5	2.3	1.5	1.4	-0.7	0.5	2.8	1.8	0.0	0.0	-----
7.....	1.4	1.6	4.5	1.7	1.4	1.0	1.5	1.6	1.4	0.0	0.0	-----
8.....	1.4	3.6	8.2	2.5	1.8	2.5	1.0	8.0	1.0	0.0	0.0	-----
9.....	1.3	3.0	4.0	3.0	4.0	1.8	1.0	15.0	0.5	0.0	0.0	-----
10.....	1.4	3.6	3.0	5.0	4.5	1.4	0.5	6.0	0.5	0.0	0.0	-----
11.....	1.4	4.0	2.8	3.0	2.7	1.0	0.5	5.0	0.5	0.0	0.0	-----
12.....	1.3	2.7	2.5	2.5	2.0	1.0	0.5	5.8	0.4	0.0	0.0	-----
13.....	1.5	2.0	2.2	2.2	1.8	1.0	1.5	2.9	0.4	0.0	0.0	-----
14.....	1.6	1.8	2.5	2.0	1.7	1.0	1.0	2.0	0.4	0.0	0.0	-----
15.....	1.5	2.0	4.5	1.9	1.7	0.9	1.0	1.5	0.4	0.0	0.0	-----
16.....	1.5	1.9	3.0	1.9	1.7	0.6	1.0	1.5	0.3	0.0	0.0	-----
17.....	1.7	1.6	2.5	2.0	1.5	0.6	1.0	2.0	0.3	0.0	0.0	-----
18.....	1.5	1.6	2.0	2.0	1.5	0.6	2.0	2.8	0.3	0.0	0.0	-----
19.....	1.9	1.7	2.0	1.8	1.4	0.6	1.0	1.5	0.3	0.0	0.0	-----
20.....	1.6	2.5	2.0	1.7	1.3	0.6	1.0	1.0	0.3	0.0	0.0	-----
21.....	1.5	2.7	1.8	1.7	1.3	-0.6	1.0	1.0	0.3	0.0	0.0	-----
22.....	1.7	4.5	2.0	1.7	1.0	-1.2	1.0	1.0	0.2	0.0	0.0	-----
23.....	4.0	7.7	3.8	1.7	1.0	-1.0	1.8	1.0	0.2	0.0	0.0	-----
24.....	4.0	4.3	4.0	1.5	1.0	0.0	1.8	1.0	0.2	0.0	0.0	-----
25.....	3.5	3.5	4.4	1.5	1.0	-0.2	0.5	5.0	0.2	0.0	0.0	-----
26.....	3.0	3.0	4.0	1.5	0.8	-0.6	1.7	1.0	0.2	0.0	0.0	-----
27.....	3.0	2.8	3.0	1.7	0.8	-0.6	1.0	6.0	0.0	0.0	0.0	-----
28.....	3.0	2.4	2.6	1.7	0.8	-0.6	0.5	3.8	0.0	0.0	0.0	-----
29.....	3.5	2.0	2.3	1.5	0.8	1.5	1.0	3.8	0.0	0.0	0.0	-----
30.....	3.6	-----	2.0	1.5	1.0	2.0	1.5	4.0	0.0	0.0	0.0	-----
31.....	1.6	-----	1.8	-----	1.7	-----	1.5	0.0	-----	0.0	-----	-----
Means.	2.0	2.6	2.9	2.0	1.6	0.7	1.1	3.1	0.5	0.0	0.0	-----

## APALACHICOLA RIVER SYSTEM—CHATTAHOOCHEE RIVER, WESTPOINT, GA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	3.0	2.8	5.9	4.1	4.9	3.4	6.3	6.4	4.1	2.6	2.8	3.7
2.....	2.8	2.6	4.7	4.1	4.8	3.3	9.4	5.7	6.1	2.5	2.7	3.2
3.....	2.5	2.4	4.6	4.0	4.6	3.3	7.8	5.0	4.5	2.5	4.6	3.1
4.....	2.5	3.0	5.0	4.0	4.4	3.6	7.1	4.5	3.2	2.6	4.2	3.9
5.....	2.4	3.0	4.8	4.0	4.3	5.0	6.5	4.0	3.0	3.8	4.3	4.5
6.....	2.9	4.6	4.5	4.0	4.2	4.8	6.2	3.6	2.9	4.0	3.6	5.8
7.....	2.9	4.5	4.2	3.9	4.0	4.3	5.4	3.4	2.8	4.2	3.4	5.9
8.....	2.8	4.2	5.0	3.9	3.8	5.1	5.0	3.2	2.7	3.7	3.2	4.6
9.....	2.8	4.6	8.1	3.8	3.6	8.1	5.1	3.1	2.6	3.5	3.1	3.9
10.....	2.7	7.3	7.5	3.8	3.6	8.5	4.2	3.0	2.5	3.4	3.0	3.6
11.....	3.4	8.6	6.3	4.9	3.5	5.8	4.0	2.9	2.4	3.4	3.0	3.3
12.....	4.7	12.2	5.6	6.1	3.4	4.6	3.6	2.8	2.3	3.6	2.9	3.2
13.....	4.4	18.4	4.7	6.7	3.4	6.5	5.4	3.4	2.2	3.8	2.9	3.1
14.....	4.7	19.5	4.5	6.0	3.4	3.9	5.0	3.8	2.3	3.7	2.8	4.9
15.....	4.9	18.5	4.3	5.5	3.3	4.2	4.8	3.0	9.2	3.2	2.8	4.2
16.....	4.6	12.4	4.5	4.2	3.3	6.4	4.5	3.0	12.6	3.0	2.7	3.7
17.....	3.7	5.9	4.3	4.0	3.2	6.0	4.3	2.9	8.8	3.0	2.7	3.5
18.....	3.4	5.5	4.1	6.0	3.2	7.0	4.1	2.9	8.0	2.9	2.7	3.3
19.....	3.9	4.7	5.0	7.7	3.7	8.4	4.0	2.8	5.1	2.9	2.7	3.0
20.....	4.6	4.5	5.2	8.5	3.6	6.0	3.8	2.8	4.3	2.8	2.7	5.8
21.....	4.8	4.6	5.2	7.4	3.5	4.5	3.6	2.8	3.2	2.8	2.6	6.5
22.....	5.1	4.6	6.3	7.0	3.4	3.8	3.5	2.8	3.0	3.0	2.8	6.4
23.....	4.2	4.7	6.2	7.5	3.4	4.6	3.8	2.9	2.9	4.6	2.9	6.0
24.....	3.8	4.8	5.8	7.0	5.0	16.4	3.7	3.5	2.8	5.0	3.0	5.3
25.....	3.7	4.8	6.1	9.2	4.4	17.8	3.6	3.8	2.8	4.9	3.2	4.8
26.....	3.3	5.0	6.5	8.0	4.2	14.6	3.6	3.4	2.7	3.4	3.8	4.2
27.....	3.2	4.6	5.8	6.0	4.0	12.2	4.0	3.2	2.7	3.2	4.5	4.1
28.....	3.0	4.9	5.4	4.8	3.6	8.4	6.1	3.0	2.7	3.0	4.0	3.9
29.....	3.0	-----	5.3	4.5	3.5	5.6	6.7	2.9	2.6	2.9	5.0	3.6
30.....	2.9	-----	5.1	5.2	3.4	6.7	12.6	3.3	2.6	2.8	4.6	3.8
31.....	2.9	-----	4.5	-----	3.4	-----	9.2	3.9	-----	2.8	-----	7.2
Means.	3.5	6.7	5.3	5.5	3.8	6.8	5.4	3.2	4.0	3.3	3.3	4.4

## DESCRIPTION OF RIVER GAGES, ETC.

## APALACHICOLA RIVER SYSTEM—CHATTAHOOCHEE RIVER, WESTPOINT, GA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	7.8	4.7	4.7	7.8	4.0	6.7	3.9	3.6	5.8	3.4	2.6	2.5
2.....	7.2	4.6	4.6	6.7	4.0	6.0	4.5	3.0	5.6	6.3	2.6	2.4
3.....	7.0	4.6	4.4	6.2	4.0	7.1	5.0	2.9	4.6	5.1	2.6	2.9
4.....	6.1	12.6	4.2	10.3	4.0	6.9	4.9	2.8	3.9	4.4	2.5	3.2
5.....	5.3	13.8	4.0	8.6	4.0	5.8	4.2	2.9	3.8	3.6	2.9	3.1
6.....	4.7	10.2	3.9	6.4	3.9	5.5	3.7	3.0	3.8	3.3	2.8	3.1
7.....	4.0	6.4	3.7	6.2	3.9	6.4	3.5	4.8	3.6	3.1	2.7	3.0
8.....	3.9	6.3	3.5	6.0	3.9	5.9	3.3	6.4	3.5	3.0	2.6	3.0
9.....	3.9	7.0	3.5	5.1	3.9	4.7	3.2	6.0	3.4	2.9	2.6	2.9
10.....	3.8	6.5	3.4	4.6	3.8	4.2	3.1	4.0	3.3	2.9	2.6	3.5
11.....	5.0	6.2	4.1	4.0	3.8	4.0	3.0	3.9	3.1	2.9	2.6	3.3
12.....	13.3	6.0	4.2	3.8	3.8	3.8	3.0	5.3	3.1	2.9	2.5	3.2
13.....	15.0	5.4	4.3	5.2	3.8	4.0	3.0	4.2	4.7	3.0	2.5	3.0
14.....	14.7	4.8	4.0	10.6	3.7	4.9	2.9	4.0	4.0	3.1	2.5	3.2
15.....	12.4	4.5	3.9	8.5	3.9	4.7	2.8	3.8	3.9	3.3	2.5	6.4
16.....	6.1	4.4	3.7	6.9	3.8	7.9	3.4	6.8	3.4	3.5	2.5	7.1
17.....	5.0	4.3	3.7	6.0	3.8	7.6	6.6	10.4	5.0	3.2	2.5	7.6
18.....	6.0	4.2	3.6	5.2	4.0	7.4	3.4	7.6	10.4	3.2	2.4	6.3
19.....	5.3	4.2	3.4	6.4	4.2	6.2	3.1	10.1	12.7	3.2	2.5	4.4
20.....	4.8	4.0	3.4	7.6	4.5	4.5	6.4	7.8	7.8	3.1	3.0	3.6
21.....	4.6	3.9	3.6	7.0	8.4	4.2	4.2	6.5	4.8	3.0	3.4	3.3
22.....	4.4	3.9	3.8	6.2	15.7	4.0	3.9	8.2	4.1	2.8	3.5	3.3
23.....	4.3	3.8	4.0	5.5	17.2	3.9	3.7	14.1	3.8	2.8	3.1	3.2
24.....	4.2	3.8	4.3	5.0	12.8	3.8	3.2	17.1	3.6	2.8	2.9	3.1
25.....	4.1	4.6	4.0	4.8	10.5	3.7	3.0	13.6	3.4	2.8	2.8	3.9
26.....	4.0	4.2	3.9	4.6	6.2	3.7	2.9	8.2	3.4	2.7	2.7	4.6
27.....	3.9	4.0	9.6	4.4	5.5	4.7	2.8	7.1	3.3	2.7	2.6	5.4
28.....	4.0	3.9	12.1	4.2	5.0	4.2	2.8	6.0	3.3	2.7	2.6	6.8
29.....	4.9	.....	13.0	4.1	4.3	4.0	3.9	5.8	3.8	2.7	2.5	19.0
30.....	4.8	.....	5.9	4.1	5.6	3.8	4.1	5.3	3.5	2.7	2.5	25.0
31.....	4.7	.....	7.8	.....	7.0	.....	4.0	5.5	.....	2.7	.....	20.0
<b>Means.</b>	<b>6.1</b>	<b>5.6</b>	<b>4.8</b>	<b>6.1</b>	<b>5.7</b>	<b>5.1</b>	<b>3.7</b>	<b>6.5</b>	<b>4.5</b>	<b>3.2</b>	<b>2.7</b>	<b>5.7</b>
<b>1902</b>												
1.....	19.0	7.7	20.0	14.0	4.0	4.6	2.0	3.1	2.8	3.8	2.0	3.6
2.....	17.6	15.5	17.3	8.3	4.0	3.5	2.0	2.3	2.2	3.2	2.0	3.7
3.....	8.3	17.1	17.6	6.1	4.7	3.3	1.9	2.1	2.1	2.9	2.0	7.0
4.....	7.5	14.9	15.9	5.5	4.4	3.1	2.7	2.0	2.2	2.4	2.0	6.7
5.....	5.1	9.2	8.4	5.3	4.0	2.9	2.5	2.2	3.0	3.0	2.0	7.4
6.....	4.7	7.5	6.7	5.4	3.9	2.9	2.8	2.4	2.8	3.0	5.7	5.5
7.....	4.2	5.4	5.9	5.5	3.8	2.8	2.6	2.1	2.4	2.6	4.3	4.4
8.....	4.1	5.2	5.6	6.2	3.7	2.8	2.4	2.4	2.0	2.6	3.3	3.8
9.....	4.0	4.7	5.4	5.1	3.8	2.7	2.3	2.1	2.3	2.5	3.3	3.4
10.....	3.9	4.3	5.2	4.9	4.0	2.7	2.2	1.8	2.6	2.2	2.7	3.2
11.....	3.8	4.0	5.0	4.7	3.9	2.7	3.2	2.0	2.2	2.2	2.5	3.0
12.....	3.7	4.0	4.9	4.7	3.8	2.6	3.0	1.8	2.2	2.6	2.4	3.0
13.....	3.6	4.0	6.3	4.6	3.8	2.6	3.6	2.1	2.3	2.5	2.3	3.0
14.....	3.4	3.9	5.9	4.5	3.7	2.6	3.4	2.3	2.3	2.7	2.3	3.0
15.....	3.4	4.6	6.1	4.5	3.6	2.6	3.2	2.0	2.5	2.8	2.2	2.9
16.....	3.3	5.3	8.7	4.5	4.4	2.5	3.1	1.7	2.5	2.4	2.2	7.0
17.....	3.3	4.9	10.2	4.5	4.2	2.5	3.0	2.0	2.3	2.4	2.2	10.1
18.....	3.2	4.4	11.4	5.5	3.9	2.9	3.9	2.1	2.0	2.4	2.4	7.6
19.....	3.5	4.3	8.8	4.9	3.8	2.7	3.6	1.9	1.9	2.2	2.7	6.1
20.....	3.9	4.9	7.0	4.7	3.7	2.8	3.3	1.6	1.9	2.1	2.7	4.5
21.....	5.4	4.5	5.5	4.5	3.6	2.9	3.8	1.6	2.0	2.0	2.7	3.9
22.....	5.0	4.2	5.3	4.3	3.5	2.8	3.4	1.6	1.9	2.0	2.5	4.5
23.....	4.3	4.1	4.9	3.9	3.5	2.7	3.3	1.8	2.1	2.0	2.3	4.4
24.....	3.8	4.0	5.1	3.9	3.4	2.5	3.2	1.5	1.9	2.0	2.3	5.0
25.....	3.7	4.6	6.0	3.9	3.3	2.4	2.0	1.4	3.0	1.9	2.3	4.1
26.....	3.7	4.7	6.2	3.8	3.3	2.3	1.9	1.2	3.3	1.9	5.7	3.7
27.....	3.6	4.9	6.4	3.8	3.3	2.3	1.9	1.3	5.3	3.4	4.9	3.4
28.....	4.5	18.0	11.4	3.9	3.2	2.2	1.8	1.5	5.0	3.2	4.5	3.3
29.....	4.1	.....	14.9	3.9	3.1	2.2	2.0	3.0	4.5	2.7	3.5	3.2
30.....	4.4	.....	14.9	4.0	3.0	2.1	2.2	4.1	3.8	2.2	3.0	3.7
31.....	4.9	.....	14.6	.....	2.9	.....	2.4	3.0	.....	2.1	.....	4.1
<b>Means.</b>	<b>5.2</b>	<b>6.4</b>	<b>9.1</b>	<b>5.1</b>	<b>3.7</b>	<b>2.7</b>	<b>2.7</b>	<b>2.1</b>	<b>2.6</b>	<b>2.5</b>	<b>2.9</b>	<b>4.6</b>

## APALACHICOLA RIVER SYSTEM—CHATTAHOOCHEE RIVER, WESTPOINT, GA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	4.1	3.8	11.7	12.3	4.4	5.7	4.0	3.8	2.2	2.1	2.0	2.2
2.....	4.1	3.5	11.3	10.3	4.4	6.7	3.7	3.0	2.2	2.1	2.1	2.2
3.....	4.1	3.4	11.4	7.1	4.4	6.1	3.5	3.7	2.2	2.0	2.2	2.2
4.....	4.1	3.7	7.5	6.5	4.4	8.8	3.6	3.8	2.1	2.0	2.5	2.2
5.....	4.1	6.5	7.1	6.2	4.4	8.6	4.1	4.6	2.1	2.0	3.5	2.2
6.....	4.0	7.0	6.5	5.8	4.3	10.8	3.8	4.5	2.1	2.0	2.8	2.3
7.....	3.8	6.3	6.2	5.6	5.4	11.9	4.0	4.0	2.3	2.0	2.6	2.3
8.....	3.6	18.6	5.8	5.5	5.2	11.4	4.0	3.3	2.1	2.0	2.8	2.3
9.....	3.4	<sup>a</sup> 19.9	5.4	9.3	4.8	6.7	4.3	2.9	2.1	2.5	2.5	2.4
10.....	3.3	14.0	6.2	8.1	4.5	6.1	4.0	2.8	2.0	2.2	2.3	2.5
11.....	3.3	12.1	7.7	6.9	4.3	5.1	3.7	2.8	2.0	2.1	2.3	2.5
12.....	4.1	15.0	9.3	5.8	4.2	6.1	3.7	2.7	2.2	2.1	2.3	2.4
13.....	4.2	12.9	10.3	6.3	6.6	5.1	3.6	2.9	2.0	2.0	2.5	2.4
14.....	5.2	10.2	8.8	7.0	5.9	4.6	6.4	3.0	2.0	2.0	2.5	2.4
15.....	4.2	6.5	6.4	8.3	12.7	4.2	6.1	2.8	3.5	2.0	2.4	2.4
16.....	3.8	5.6	6.0	10.2	9.0	4.0	4.5	4.0	4.7	2.0	2.4	2.4
17.....	3.6	14.6	5.7	6.4	6.1	3.9	3.7	4.3	5.3	2.5	2.3	2.4
18.....	3.5	16.0	5.4	5.7	4.8	3.8	3.4	4.7	4.5	2.5	2.7	2.3
19.....	3.3	14.7	5.1	5.4	4.4	3.7	3.2	5.7	3.4	2.4	2.9	2.3
20.....	3.2	14.3	5.0	7.3	4.2	3.6	3.1	5.1	3.0	2.3	2.7	2.3
21.....	3.2	6.4	5.8	7.3	4.1	3.6	3.0	3.8	2.6	2.3	2.6	2.6
22.....	3.2	5.6	8.3	5.8	4.0	3.8	2.9	3.1	2.5	2.2	2.5	2.6
23.....	3.1	5.2	13.2	5.1	3.9	3.6	2.9	2.9	2.4	2.1	2.4	2.6
24.....	3.1	5.0	14.8	4.9	3.8	3.6	2.9	2.7	2.4	2.0	2.3	2.5
25.....	3.2	4.7	14.7	4.7	3.7	3.5	3.1	2.6	2.3	2.0	2.3	2.5
26.....	3.2	4.6	15.2	5.1	3.6	3.7	3.0	2.5	2.3	2.0	2.3	3.0
27.....	3.2	4.5	14.4	5.0	3.6	4.5	2.8	2.4	2.2	2.0	2.3	3.0
28.....	3.5	8.4	6.5	4.9	3.6	5.0	2.7	2.3	2.1	2.0	2.3	2.7
29.....	3.7	-----	7.1	4.6	3.6	5.2	2.7	2.3	2.1	2.0	2.2	2.7
30.....	3.5	-----	12.1	4.5	3.6	4.7	3.0	2.3	2.1	2.0	2.2	2.5
31.....	3.9	-----	13.6	-----	5.5	-----	4.0	2.3	-----	2.0	-----	2.4
<b>Means.</b>	<b>3.7</b>	<b>9.0</b>	<b>8.9</b>	<b>6.6</b>	<b>4.9</b>	<b>5.6</b>	<b>3.7</b>	<b>3.3</b>	<b>2.6</b>	<b>2.1</b>	<b>2.5</b>	<b>2.4</b>
<b>1904</b>												
1.....	2.4	2.9	3.3	2.9	2.5	3.0	2.5	2.6	2.3	1.2	1.2	1.7
2.....	2.3	2.9	3.3	2.9	2.5	3.6	2.3	2.7	1.4	1.2	0.9	1.8
3.....	2.4	2.9	3.7	2.9	2.4	2.7	2.1	2.5	2.0	1.2	1.1	1.9
4.....	2.4	2.8	3.5	2.8	2.4	2.4	2.1	3.3	1.9	1.2	1.5	2.0
5.....	2.4	2.8	3.3	2.7	2.4	2.2	1.7	2.5	1.8	1.1	1.7	2.0
6.....	2.3	2.8	3.1	2.7	2.4	2.1	1.9	3.1	2.5	1.1	1.6	2.6
7.....	2.3	3.1	4.7	2.8	2.4	1.5	1.6	5.3	2.4	1.2	1.6	3.0
8.....	2.4	4.8	6.0	3.2	2.4	1.4	1.3	11.4	2.2	1.2	1.5	3.2
9.....	2.4	5.0	6.0	3.6	2.4	2.0	2.4	12.6	2.1	1.1	1.6	3.1
10.....	2.7	4.4	5.4	3.5	3.1	2.3	2.1	12.4	1.9	1.1	1.5	2.5
11.....	3.0	5.4	4.2	3.5	3.4	2.1	1.8	9.6	1.7	1.1	1.5	2.2
12.....	2.8	5.1	3.7	3.4	3.1	2.0	1.6	6.2	1.6	1.1	1.5	2.1
13.....	2.7	4.1	3.6	3.1	2.6	1.8	1.6	4.8	1.6	1.2	1.6	1.9
14.....	2.7	3.7	3.6	2.9	2.4	1.6	1.8	4.2	1.6	1.1	1.7	2.0
15.....	2.7	3.4	4.0	2.8	2.3	1.6	1.9	5.0	1.5	1.0	1.8	1.8
16.....	2.6	3.3	4.2	2.7	2.3	1.6	1.4	4.0	1.5	1.0	1.7	1.8
17.....	3.5	3.2	3.7	2.7	2.3	1.6	1.4	3.9	1.4	1.0	1.6	1.8
18.....	3.6	3.0	3.4	2.7	2.3	1.5	1.7	3.4	1.4	1.1	1.6	1.8
19.....	3.3	3.1	3.2	2.7	2.2	1.5	1.4	3.0	1.4	1.0	1.6	1.8
20.....	3.1	3.7	3.1	2.7	2.1	1.5	2.0	2.9	1.3	1.1	1.6	1.8
21.....	2.8	4.0	3.0	2.7	2.0	1.5	1.7	2.3	1.3	1.2	1.6	1.7
22.....	3.3	5.4	3.0	2.7	2.0	1.4	2.0	2.4	1.4	0.9	1.6	1.7
23.....	5.5	6.4	3.3	2.7	2.0	1.3	2.1	2.2	1.8	0.9	1.8	1.7
24.....	5.1	6.1	3.3	2.6	1.9	1.7	2.3	2.2	1.9	0.9	1.8	1.7
25.....	4.2	5.3	3.8	2.6	1.9	1.3	2.0	4.3	1.5	0.9	1.8	1.9
26.....	3.8	4.3	3.8	2.6	1.9	1.4	1.9	5.1	1.4	0.9	1.8	2.1
27.....	3.3	3.9	3.6	2.6	1.8	1.3	1.4	4.1	1.3	1.1	1.7	2.1
28.....	3.0	3.6	3.3	2.6	1.8	1.2	1.9	5.8	1.3	1.2	1.7	3.5
29.....	3.0	3.4	3.2	2.6	1.8	1.4	1.7	3.9	1.3	1.1	1.7	3.6
30.....	2.9	-----	3.1	2.6	1.8	2.0	2.1	3.0	1.3	1.0	1.6	3.7
31.....	2.9	-----	3.0	-----	2.7	-----	2.2	2.4	-----	1.1	-----	3.6
<b>Means.</b>	<b>3.0</b>	<b>4.0</b>	<b>3.7</b>	<b>2.8</b>	<b>2.3</b>	<b>1.8</b>	<b>1.9</b>	<b>4.6</b>	<b>1.7</b>	<b>1.1</b>	<b>1.6</b>	<b>2.3</b>

<sup>a</sup> Maximum stage, 21.9.

## DESCRIPTION OF RIVER GAGES, ETC.

## APALACHICOLA RIVER SYSTEM—CHATTAHOOCHEE RIVER, EUFAULA, ALA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	3.0	2.6	13.0	8.0	.....	.....	.....	.....	.....	.....	2.6	4.0
2.....	3.4	2.3	14.6	7.0	.....	.....	.....	.....	.....	.....	2.8	3.6
3.....	4.0	2.0	12.9	6.8	.....	.....	.....	.....	.....	.....	5.0	3.2
4.....	2.5	2.5	10.6	6.0	.....	.....	.....	.....	.....	.....	6.8	7.2
5.....	1.8	4.8	9.6	6.0	.....	.....	.....	.....	.....	.....	12.0	7.2
6.....	1.6	6.8	9.0	6.0	.....	.....	.....	.....	.....	.....	7.2	8.0
7.....	2.0	6.0	7.6	5.9	.....	.....	.....	.....	.....	.....	5.6	9.0
8.....	2.2	5.8	7.0	5.8	.....	.....	.....	.....	.....	.....	4.2	7.9
9.....	2.6	5.0	10.0	5.2	.....	.....	.....	.....	.....	.....	3.4	5.8
10.....	2.8	11.0	13.8	5.0	.....	.....	.....	.....	.....	.....	2.8	4.8
11.....	2.9	33.0	13.0	5.0	.....	.....	.....	.....	.....	.....	2.2	4.2
12.....	4.0	37.6	11.2	6.0	.....	.....	.....	.....	.....	.....	2.0	3.7
13.....	7.0	46.4	10.0	9.6	.....	.....	.....	.....	.....	.....	1.9	3.6
14.....	6.8	52.0	7.9	10.0	.....	.....	.....	.....	.....	.....	1.9	8.6
15.....	6.0	53.0	7.0	9.5	.....	.....	.....	.....	.....	.....	1.9	15.0
16.....	5.6	49.0	10.0	7.8	.....	.....	.....	.....	.....	.....	1.9	12.8
17.....	4.0	32.0	9.0	7.0	.....	.....	.....	.....	.....	.....	2.2	9.0
18.....	3.9	18.0	8.2	8.0	.....	.....	.....	.....	.....	.....	2.0	6.6
19.....	3.9	12.3	7.0	22.6	.....	.....	.....	.....	.....	.....	2.0	5.0
20.....	4.8	10.0	10.0	22.6	.....	.....	.....	.....	.....	.....	2.0	5.2
21.....	7.2	9.0	12.2	21.0	.....	.....	.....	.....	.....	.....	2.0	12.6
22.....	7.0	12.5	11.0	17.0	.....	.....	.....	.....	.....	.....	2.2	16.2
23.....	7.0	11.8	10.8	13.6	.....	.....	.....	.....	.....	.....	2.6	13.0
24.....	6.4	10.0	23.0	13.0	.....	.....	.....	.....	.....	.....	3.0	10.8
25.....	5.0	11.0	25.0	11.8	.....	.....	.....	.....	.....	.....	3.4	8.7
26.....	4.0	10.0	21.8	14.0	.....	.....	.....	.....	.....	.....	5.2	7.0
27.....	3.8	9.8	17.0	13.9	.....	.....	.....	.....	.....	.....	6.3	6.2
28.....	3.0	8.8	15.0	11.6	.....	.....	.....	.....	.....	.....	6.8	6.0
29.....	3.0	.....	12.0	7.8	.....	.....	.....	.....	.....	.....	6.0	6.0
30.....	2.8	.....	10.0	8.8	.....	.....	.....	.....	.....	.....	5.2	5.6
31.....	2.6	.....	8.9	.....	.....	.....	.....	.....	.....	.....	.....	8.8
<b>Means.</b>	<b>4.1</b>	<b>17.0</b>	<b>11.9</b>	<b>10.1</b>	.....	.....	.....	.....	.....	.....	<b>3.8</b>	<b>7.6</b>
<b>1901</b>												
1.....	12.0	7.7	5.8	30.0	.....	.....	.....	.....	.....	4.4	2.0	2.0
2.....	18.0	7.0	5.7	26.0	.....	.....	.....	.....	.....	6.7	2.0	1.6
3.....	18.7	6.8	5.4	32.0	.....	.....	.....	.....	.....	7.0	2.0	2.4
4.....	17.0	16.2	5.2	29.0	.....	.....	.....	.....	.....	8.8	1.6	2.7
5.....	18.7	22.8	5.0	24.6	.....	.....	.....	.....	.....	6.4	2.0	3.0
6.....	10.5	23.9	5.0	19.0	.....	.....	.....	.....	.....	4.7	2.0	2.7
7.....	8.0	20.0	4.8	13.0	.....	.....	.....	.....	.....	4.2	2.0	2.7
8.....	7.2	14.0	4.6	11.2	.....	.....	.....	.....	.....	3.2	1.8	2.5
9.....	6.7	18.7	4.4	9.8	.....	.....	.....	.....	.....	3.0	2.2	2.5
10.....	6.0	20.5	4.2	8.8	.....	.....	.....	.....	.....	2.8	2.0	3.5
11.....	6.0	16.0	9.0	8.0	.....	.....	.....	.....	.....	2.8	1.6	3.8
12.....	8.0	13.7	8.8	7.7	.....	.....	.....	.....	.....	2.8	1.5	3.8
13.....	22.0	12.0	7.6	8.3	.....	.....	.....	.....	.....	2.8	1.4	3.5
14.....	25.6	10.3	5.8	9.8	.....	.....	.....	.....	.....	2.8	1.6	3.3
15.....	20.0	9.5	9.6	13.0	.....	.....	.....	.....	.....	2.8	1.6	11.2
16.....	23.6	8.0	7.3	16.0	.....	.....	.....	.....	.....	2.8	1.6	13.0
17.....	13.0	7.2	5.7	12.2	.....	.....	.....	.....	.....	2.8	1.6	11.0
18.....	15.0	6.8	5.1	9.7	.....	.....	.....	.....	.....	2.8	1.6	10.2
19.....	13.2	7.2	4.8	9.5	.....	.....	.....	.....	.....	2.6	2.0	9.0
20.....	9.8	7.0	5.5	13.0	.....	.....	.....	.....	.....	2.2	3.0	5.7
21.....	8.4	6.8	11.4	13.6	.....	.....	.....	.....	.....	2.0	2.8	4.7
22.....	7.5	6.0	8.4	12.0	.....	.....	.....	.....	.....	2.0	2.8	3.5
23.....	6.8	5.8	6.8	12.0	.....	.....	.....	.....	.....	2.0	2.8	3.0
24.....	6.5	7.0	12.1	9.8	.....	.....	.....	.....	.....	2.0	2.6	2.7
25.....	6.8	6.8	12.3	8.6	.....	.....	.....	.....	.....	2.0	2.6	4.3
26.....	7.0	6.8	21.2	7.8	.....	.....	.....	.....	.....	2.0	2.4	4.8
27.....	6.9	6.8	33.8	7.0	.....	.....	.....	.....	.....	2.0	2.4	5.2
28.....	6.8	6.5	29.0	6.7	.....	.....	.....	.....	.....	1.8	2.1	6.7
29.....	6.7	.....	23.7	6.6	.....	.....	.....	.....	.....	2.2	2.2	11.7
30.....	6.6	.....	22.0	6.0	.....	.....	.....	.....	.....	2.0	2.0	31.6
31.....	7.9	.....	23.0	.....	.....	.....	.....	.....	.....	2.0	.....	41.0
<b>Means.</b>	<b>11.5</b>	<b>11.0</b>	<b>10.4</b>	<b>13.4</b>	.....	.....	.....	.....	.....	<b>3.2</b>	<b>2.1</b>	<b>7.1</b>



## APALACHICOLA RIVER SYSTEM—CHATTAHOOCHEE RIVER, EUFAULA, ALA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	42.8	15.6	53.2	34.0	.....	.....	.....	.....	.....	.....	2.1	7.0
2.....	39.6	30.0	56.0	29.4	.....	.....	.....	.....	.....	.....	2.1	9.5
3.....	35.7	35.3	53.0	17.8	.....	.....	.....	.....	.....	.....	1.8	15.0
4.....	23.0	38.0	47.8	12.0	.....	.....	.....	.....	.....	.....	1.6	16.5
5.....	9.8	34.7	41.7	11.5	.....	.....	.....	.....	.....	.....	1.6	18.8
6.....	8.2	26.7	27.2	10.2	.....	.....	.....	.....	.....	.....	2.0	15.8
7.....	7.8	13.4	16.0	10.0	.....	.....	.....	.....	.....	.....	1.8	11.0
8.....	6.5	10.0	13.2	15.5	.....	.....	.....	.....	.....	.....	2.4	8.5
9.....	6.5	9.0	11.9	16.0	.....	.....	.....	.....	.....	.....	5.0	6.6
10.....	6.5	8.0	11.0	13.2	.....	.....	.....	.....	.....	.....	3.8	4.8
11.....	6.0	7.7	10.6	10.8	.....	.....	.....	.....	.....	.....	3.2	4.0
12.....	5.8	7.0	10.0	9.3	.....	.....	.....	.....	.....	.....	2.7	4.0
13.....	5.6	6.8	9.7	8.8	.....	.....	.....	.....	.....	.....	2.5	5.0
14.....	5.2	6.6	11.0	8.0	.....	.....	.....	.....	.....	.....	2.0	4.2
15.....	4.8	6.4	17.0	7.8	.....	.....	.....	.....	.....	.....	1.8	3.6
16.....	4.7	8.0	24.7	8.5	.....	.....	.....	.....	.....	.....	1.5	4.4
17.....	4.7	8.4	42.0	8.0	.....	.....	.....	.....	.....	.....	1.5	5.6
18.....	4.7	7.0	42.0	8.3	.....	.....	.....	.....	.....	.....	1.5	21.0
19.....	4.7	6.7	38.4	10.0	.....	.....	.....	.....	.....	.....	2.2	18.2
20.....	5.0	8.0	26.0	9.5	.....	.....	.....	.....	.....	.....	2.0	15.0
21.....	5.6	11.8	14.6	8.7	.....	.....	.....	.....	.....	.....	1.8	8.0
22.....	7.0	10.0	13.4	7.8	.....	.....	.....	.....	.....	.....	1.8	8.0
23.....	6.8	8.2	14.6	7.0	.....	.....	.....	.....	.....	.....	2.4	9.0
24.....	6.0	7.6	13.0	6.7	.....	.....	.....	.....	.....	.....	1.8	7.8
25.....	5.6	8.0	23.0	6.4	.....	.....	.....	.....	.....	.....	1.6	5.6
26.....	5.0	9.0	20.4	6.0	.....	.....	.....	.....	.....	.....	1.4	5.0
27.....	5.0	8.8	17.0	6.6	.....	.....	.....	.....	.....	.....	10.8	5.0
28.....	5.0	34.6	24.0	6.2	.....	.....	.....	.....	.....	.....	9.0	4.8
29.....	5.8	.....	31.3	6.0	.....	.....	.....	.....	.....	.....	8.0	4.0
30.....	6.0	.....	37.2	5.7	.....	.....	.....	.....	.....	.....	5.3	4.0
31.....	7.0	.....	37.8	.....	.....	.....	.....	.....	.....	.....	.....	4.6
Means.	9.8	14.0	26.1	10.9	.....	.....	.....	.....	.....	.....	3.0	8.5
<b>1903</b>												
1.....	5.0	5.6	23.0	27.9	.....	.....	.....	.....	.....	.....	1.0	1.8
2.....	6.2	5.0	25.0	25.3	.....	.....	.....	.....	.....	.....	1.0	1.8
3.....	6.0	5.0	21.2	19.5	.....	.....	.....	.....	.....	.....	1.5	1.7
4.....	7.1	6.2	20.0	13.8	.....	.....	.....	.....	.....	.....	2.0	1.7
5.....	6.0	8.0	17.3	11.5	.....	.....	.....	.....	.....	.....	2.8	1.7
6.....	6.0	10.6	19.7	11.5	.....	.....	.....	.....	.....	.....	3.0	2.0
7.....	5.4	11.4	19.0	10.2	.....	.....	.....	.....	.....	.....	3.5	2.4
8.....	5.8	14.0	15.6	10.4	.....	.....	.....	.....	.....	.....	2.7	2.6
9.....	4.8	16.4	12.3	16.0	.....	.....	.....	.....	.....	.....	2.5	2.7
10.....	4.4	42.0	10.8	17.2	.....	.....	.....	.....	.....	.....	2.5	3.0
11.....	4.4	41.7	11.2	14.6	.....	.....	.....	.....	.....	.....	2.2	3.1
12.....	7.8	42.6	14.6	15.6	.....	.....	.....	.....	.....	.....	1.8	3.1
13.....	8.6	38.0	17.0	14.8	.....	.....	.....	.....	.....	.....	2.5	3.1
14.....	7.0	33.2	18.2	17.0	.....	.....	.....	.....	.....	.....	2.5	3.0
15.....	5.5	28.5	17.0	18.2	.....	.....	.....	.....	.....	.....	2.4	2.9
16.....	5.0	18.7	12.8	15.4	.....	.....	.....	.....	.....	.....	2.0	2.8
17.....	5.0	21.0	12.0	17.2	.....	.....	.....	.....	.....	.....	1.9	2.7
18.....	6.2	28.8	10.8	17.0	.....	.....	.....	.....	.....	.....	1.9	2.7
19.....	5.0	31.0	8.8	14.6	.....	.....	.....	.....	.....	.....	3.0	2.7
20.....	4.8	28.6	9.0	10.4	.....	.....	.....	.....	.....	.....	3.0	2.7
21.....	4.4	25.7	8.2	14.0	.....	.....	.....	.....	.....	.....	3.0	2.9
22.....	4.0	18.5	7.8	13.8	.....	.....	.....	.....	.....	.....	2.9	3.0
23.....	3.8	10.7	18.2	10.4	.....	.....	.....	.....	.....	.....	2.6	3.0
24.....	3.8	9.6	27.0	8.8	.....	.....	.....	.....	.....	.....	2.3	2.9
25.....	4.2	8.7	30.0	8.0	.....	.....	.....	.....	.....	.....	2.0	4.0
26.....	4.8	8.0	27.8	7.0	.....	.....	.....	.....	.....	.....	2.2	7.5
27.....	5.6	8.0	26.2	8.2	.....	.....	.....	.....	.....	.....	2.5	7.0
28.....	4.0	9.0	24.2	8.0	.....	.....	.....	.....	.....	.....	2.4	5.5
29.....	6.2	.....	20.6	6.8	.....	.....	.....	.....	.....	.....	2.0	4.0
30.....	7.0	.....	22.4	6.0	.....	.....	.....	.....	.....	.....	1.9	3.5
31.....	6.0	.....	26.0	.....	.....	.....	.....	.....	.....	.....	.....	3.1
Means.	5.5	19.1	11.4	13.4	.....	.....	.....	.....	.....	.....	2.3	3.1

## DESCRIPTION OF RIVER GAGES, ETC.

## CAPE FEAR RIVER SYSTEM—CAPE FEAR RIVER, FAYETTEVILLE, N. C.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	35.5	17.0	40.5	16.8	7.0	3.1	4.4	2.7	1.0	3.9	2.6	7.6
2.....	30.0	27.7	41.7	12.6	7.0	2.9	3.3	2.3	0.9	4.4	2.3	20.0
3.....	22.0	39.8	39.8	10.2	5.8	2.8	2.7	2.3	0.9	5.8	2.0	19.2
4.....	16.6	40.3	33.5	8.0	5.4	2.6	2.4	1.8	0.5	4.6	1.9	21.6
5.....	12.5	35.8	29.3	7.3	5.0	2.5	2.1	1.6	0.5	4.0	1.7	19.4
6.....	9.0	26.2	23.0	8.7	4.5	2.4	1.8	1.4	0.8	3.6	1.7	17.8
7.....	8.0	19.0	19.9	8.5	4.5	2.3	1.6	1.8	0.8	5.7	2.3	14.0
8.....	7.0	14.2	16.8	9.6	4.5	2.1	1.4	2.1	0.8	6.0	2.8	11.2
9.....	6.9	11.0	13.6	26.0	4.5	2.2	1.2	2.1	1.0	5.0	3.2	9.7
10.....	6.9	9.5	12.9	25.0	4.8	2.4	3.3	1.8	1.1	3.8	3.6	7.0
11.....	6.8	8.0	12.0	19.0	4.8	2.2	2.8	1.8	4.4	3.3	3.0	6.0
12.....	6.5	7.9	11.0	14.2	4.5	2.4	2.3	3.0	5.8	3.8	2.5	5.6
13.....	6.2	7.8	10.2	10.0	4.4	2.5	2.7	3.4	3.8	7.0	2.4	6.0
14.....	5.8	7.7	9.2	8.8	5.2	2.2	3.5	2.4	3.6	8.0	2.2	16.0
15.....	5.7	7.5	8.8	7.6	5.0	1.9	2.8	1.6	2.2	6.1	2.1	15.6
16.....	5.3	6.8	8.7	8.0	6.0	1.9	2.6	1.7	1.5	5.6	1.8	11.2
17.....	5.3	7.9	11.0	8.0	6.0	2.4	2.3	2.8	1.4	4.7	1.9	9.2
18.....	5.3	9.0	20.0	8.5	5.4	8.0	2.3	2.8	1.0	3.8	1.9	9.5
19.....	5.3	9.8	17.8	11.0	6.2	7.8	2.1	2.7	0.9	3.0	2.0	10.0
20.....	5.3	10.0	14.0	11.0	6.5	6.0	1.6	2.4	0.9	3.0	6.5	8.4
21.....	5.2	10.8	11.0	9.6	6.8	5.0	1.3	2.7	0.8	2.9	6.6	7.8
22.....	11.5	12.2	9.8	8.0	5.8	3.7	1.5	2.5	0.7	2.5	5.2	7.8
23.....	19.8	18.5	9.0	7.3	4.4	3.0	1.3	2.2	0.8	1.9	4.0	14.8
24.....	17.2	24.5	8.5	6.8	3.9	2.7	1.0	2.2	0.7	2.0	3.5	14.0
25.....	12.8	26.9	8.3	6.0	3.6	2.7	1.0	2.2	0.5	2.0	3.0	9.8
26.....	10.0	35.3	8.0	5.8	3.8	3.4	1.7	2.1	2.0	1.7	3.7	8.6
27.....	8.0	38.3	7.7	5.7	4.8	4.4	1.6	1.7	4.6	1.6	7.0	7.0
28.....	7.5	35.0	7.2	5.4	5.0	4.4	1.1	1.4	8.6	1.7	10.0	6.2
29.....	8.2	.....	7.8	5.1	4.8	4.7	1.5	1.3	8.0	1.9	8.0	5.8
30.....	10.0	.....	15.6	6.0	4.0	5.3	1.9	1.3	6.2	1.8	5.0	5.3
31.....	12.2	.....	20.0	.....	3.6	.....	1.8	1.2	.....	2.8	.....	5.8
<b>Means.</b>	<b>10.8</b>	<b>18.7</b>	<b>16.3</b>	<b>10.2</b>	<b>5.1</b>	<b>3.4</b>	<b>2.1</b>	<b>2.1</b>	<b>2.2</b>	<b>3.8</b>	<b>3.5</b>	<b>10.9</b>
<b>1903</b>												
1.....	5.8	7.6	26.2	38.8	14.7	5.3	6.0	2.1	1.8	1.3	2.8	2.1
2.....	5.6	7.0	29.3	33.2	10.8	5.2	5.2	3.2	3.1	1.1	2.5	2.0
3.....	8.5	6.8	26.2	25.2	9.2	6.0	4.3	3.0	2.4	1.3	2.4	2.1
4.....	24.0	6.6	19.4	18.0	8.0	5.3	3.6	3.1	2.9	1.1	2.3	2.0
5.....	24.6	13.0	14.4	18.0	7.5	5.0	3.4	3.2	2.3	1.0	2.3	2.1
6.....	24.0	23.4	12.0	17.6	7.0	4.6	5.3	6.2	1.9	1.0	2.5	2.1
7.....	20.0	18.8	10.2	14.0	6.8	5.2	17.2	4.9	1.5	0.9	3.5	2.4
8.....	14.8	21.0	9.4	11.8	6.2	12.0	12.5	3.9	1.7	0.8	5.3	2.4
9.....	11.2	31.9	8.6	17.6	6.0	12.8	10.0	3.5	1.4	1.5	3.8	2.5
10.....	8.5	31.0	12.8	22.4	5.8	10.0	5.7	3.8	1.6	2.0	3.3	2.3
11.....	7.8	26.4	12.9	19.2	5.8	7.8	4.0	3.4	7.0	1.9	2.8	3.1
12.....	7.9	28.9	11.4	14.0	5.7	10.0	3.7	3.6	4.4	1.7	2.7	3.0
13.....	12.0	32.4	20.0	11.8	5.5	10.0	3.4	3.5	3.5	1.9	2.6	3.1
14.....	12.3	28.4	22.4	12.0	5.4	6.0	4.3	3.5	2.9	1.6	2.7	2.8
15.....	9.8	21.0	15.6	25.6	5.2	5.2	12.2	4.5	2.4	1.5	2.8	3.1
16.....	7.0	17.8	12.7	28.2	5.0	4.7	10.0	7.4	2.0	1.3	2.6	3.0
17.....	6.5	18.0	10.0	21.9	4.7	3.8	7.0	7.2	2.0	1.2	2.2	2.8
18.....	6.4	33.5	9.4	17.8	4.5	3.8	5.6	5.6	3.2	2.7	2.1	2.9
19.....	6.1	33.0	8.7	13.2	4.2	3.7	4.6	5.3	9.0	8.5	2.4	2.7
20.....	5.7	26.8	7.8	10.8	4.0	4.3	4.0	4.8	6.5	6.6	4.9	2.6
21.....	7.8	21.7	7.2	9.3	4.0	3.9	3.7	4.9	4.8	4.9	4.5	3.5
22.....	10.0	14.0	9.8	14.3	4.0	4.3	3.0	4.5	3.5	3.6	3.9	9.4
23.....	14.0	12.0	35.0	14.0	3.9	7.6	2.7	3.7	2.7	3.0	3.2	8.7
24.....	12.0	9.6	49.8	18.2	3.7	14.0	2.6	3.1	2.5	3.0	2.8	6.5
25.....	9.5	9.0	50.5	16.0	4.0	10.0	2.4	2.7	2.0	4.0	2.5	5.0
26.....	8.0	8.6	45.0	14.4	4.8	8.0	2.3	2.3	1.8	5.2	2.6	4.8
27.....	7.5	8.0	35.0	24.3	4.3	7.6	2.0	1.9	1.7	6.0	2.6	5.5
28.....	7.0	10.0	24.2	28.6	4.0	8.0	1.9	2.2	1.7	5.5	2.5	6.0
29.....	7.0	.....	18.6	24.0	4.0	9.5	1.7	2.3	1.5	4.0	2.5	5.8
30.....	8.5	.....	17.0	19.4	3.9	8.2	1.4	1.9	1.3	3.5	2.3	4.6
31.....	8.5	.....	37.7	.....	4.0	.....	1.6	1.7	.....	3.1	.....	4.0
<b>Means.</b>	<b>10.6</b>	<b>18.8</b>	<b>20.3</b>	<b>19.1</b>	<b>5.7</b>	<b>7.1</b>	<b>5.1</b>	<b>3.8</b>	<b>2.9</b>	<b>2.8</b>	<b>2.9</b>	<b>3.7</b>

## CAPE FEAR RIVER SYSTEM—CAPE FEAR RIVER, FAYETTEVILLE, N. C.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	3.8	5.5	14.0	7.8	6.2	2.3	13.4	6.2	5.7	3.9	3.6	5.0
2.....	3.5	6.0	12.4	6.8	4.7	2.8	10.0	5.1	6.5	3.7	3.4	5.0
3.....	3.5	6.5	10.8	6.1	4.1	5.5	6.1	8.0	5.6	3.4	3.4	5.5
4.....	3.5	6.8	9.1	5.7	3.9	4.8	5.0	11.0	7.5	3.4	3.6	10.0
5.....	3.4	9.0	8.5	5.2	3.9	3.8	3.9	9.1	12.4	3.1	14.0	11.5
6.....	3.0	8.6	7.8	4.3	3.8	3.4	3.2	11.0	15.2	3.0	20.7	12.2
7.....	3.0	9.5	8.3	4.4	3.5	2.7	2.5	11.0	16.3	2.9	18.2	17.0
8.....	3.0	11.7	21.5	4.3	3.5	2.6	3.0	12.0	12.8	2.8	12.6	15.0
9.....	3.0	19.3	25.0	5.6	5.3	6.3	2.5	16.9	9.6	2.9	9.5	12.8
10.....	3.0	17.2	20.0	6.1	6.6	5.4	3.3	19.1	6.7	2.7	7.2	11.5
11.....	2.9	12.0	16.0	5.3	6.0	4.7	5.3	23.4	5.2	2.7	6.1	8.6
12.....	3.4	9.3	12.6	4.7	6.5	9.0	8.2	23.4	4.5	2.7	5.8	7.7
13.....	4.1	8.0	9.8	4.4	5.7	12.3	10.5	26.2	4.0	2.5	5.4	7.4
14.....	4.7	7.4	9.5	4.7	4.1	8.2	10.5	20.2	3.8	2.5	23.0	7.5
15.....	4.0	7.0	9.7	4.5	3.2	5.2	7.7	14.0	29.0	2.7	27.8	7.8
16.....	3.7	6.4	11.1	4.3	3.5	4.0	5.5	9.7	49.6	2.4	23.0	7.2
17.....	3.6	6.3	9.7	4.3	7.7	3.0	4.8	7.2	50.0	2.2	18.0	7.6
18.....	3.5	6.2	8.0	4.5	6.3	2.7	3.8	5.9	37.5	2.2	14.0	7.8
19.....	3.2	6.6	7.4	4.4	6.8	2.3	3.2	5.2	28.2	2.0	10.2	10.0
20.....	3.0	10.0	6.8	4.5	8.2	6.8	2.5	4.4	20.0	2.0	8.5	11.1
21.....	3.0	19.2	6.3	4.0	7.2	4.8	2.0	4.1	14.1	4.8	7.0	10.1
22.....	3.0	24.5	6.0	3.9	5.8	7.1	3.0	5.2	9.2	11.0	6.4	10.0
23.....	4.0	33.5	6.2	3.5	4.4	4.4	5.0	4.5	7.8	9.8	6.4	9.0
24.....	14.0	34.0	6.4	3.4	3.6	4.3	10.3	4.4	6.8	7.2	6.3	7.2
25.....	15.0	27.5	10.2	3.5	3.3	3.2	12.6	4.3	6.0	5.6	6.0	8.0
26.....	11.2	21.2	11.8	3.6	3.9	2.5	14.0	3.9	5.6	4.2	5.9	7.8
27.....	7.8	17.3	9.0	3.6	3.8	2.3	11.2	5.0	5.1	4.0	5.5	7.8
28.....	6.0	12.8	17.0	5.3	3.6	1.9	7.7	5.5	4.8	5.2	5.3	7.6
29.....	6.2	13.5	16.8	8.8	3.3	5.9	5.6	17.2	4.7	5.0	5.1	9.8
30.....	6.0	-----	14.0	8.3	2.7	18.4	7.7	15.2	4.3	4.6	5.0	10.2
31.....	6.4	-----	9.4	-----	2.3	-----	6.5	13.7	-----	3.9	-----	8.8
Means.	4.9	13.2	11.3	5.0	4.8	5.1	6.5	10.7	13.3	3.9	9.9	9.2

## COLORADO RIVER, YUMA, ARIZ.

1900												
1.....	17.0	18.3	17.8	19.4	19.7	24.6	22.8	-----	16.9	17.0	17.6	17.8
2.....	17.8	18.2	17.8	19.3	19.7	24.8	22.6	-----	16.8	16.9	17.6	17.7
3.....	17.7	18.2	17.8	19.3	20.5	25.0	22.4	-----	16.8	16.8	17.5	17.4
4.....	17.5	18.2	17.8	19.2	20.5	25.2	22.1	-----	16.6	16.8	17.4	17.8
5.....	17.4	18.1	17.8	19.3	20.5	25.3	21.8	-----	16.5	16.8	17.5	17.8
6.....	17.2	18.0	17.7	19.4	20.1	25.5	21.5	-----	16.6	16.8	17.4	17.8
7.....	17.2	18.1	17.6	19.5	20.3	25.7	21.4	-----	16.5	16.8	17.4	17.8
8.....	17.2	18.0	17.7	19.4	20.3	25.8	21.2	-----	16.5	16.9	17.4	17.7
9.....	17.2	18.0	17.8	19.2	20.3	26.0	21.0	-----	16.5	17.2	17.4	17.7
10.....	17.2	17.9	17.8	19.3	20.5	26.0	20.8	-----	16.4	17.2	17.5	17.7
11.....	17.2	17.9	17.8	19.4	20.8	26.0	20.5	-----	16.4	17.2	17.5	17.7
12.....	17.3	17.8	17.8	19.4	20.9	25.9	20.3	-----	16.6	17.2	17.5	17.7
13.....	17.4	17.8	17.8	19.3	21.0	25.7	20.2	-----	17.3	17.2	17.5	17.7
14.....	17.4	17.8	17.8	19.2	21.2	25.5	19.8	-----	18.0	17.2	17.5	17.7
15.....	17.4	17.8	17.8	19.2	21.4	25.2	19.8	-----	17.7	17.3	17.5	17.7
16.....	17.7	17.8	18.0	19.2	21.6	25.3	19.6	-----	17.5	17.3	17.5	17.7
17.....	18.8	17.8	18.0	19.5	22.2	25.2	19.5	-----	17.7	17.3	17.5	17.6
18.....	18.1	17.8	18.1	19.5	22.8	24.8	19.2	-----	17.4	17.4	17.6	17.4
19.....	18.2	17.8	18.2	19.4	23.2	24.7	19.0	-----	17.8	17.4	17.5	17.4
20.....	18.2	17.8	18.2	19.5	23.6	24.5	18.9	-----	18.1	17.3	17.6	17.4
21.....	18.3	17.8	18.3	19.8	23.8	24.2	18.8	-----	17.8	17.3	17.7	17.4
22.....	18.3	17.8	18.5	20.2	23.8	24.2	18.8	-----	17.7	17.3	17.8	17.4
23.....	18.2	17.7	18.5	20.2	23.8	24.0	18.5	-----	17.4	17.6	17.8	17.5
24.....	18.2	17.7	18.5	20.2	24.0	23.9	18.4	-----	17.2	17.6	18.1	17.5
25.....	18.2	17.7	18.6	19.9	24.2	23.8	18.3	-----	17.2	17.8	18.3	17.5
26.....	18.2	17.7	18.6	19.0	24.5	23.7	18.2	-----	17.2	17.8	18.6	17.5
27.....	18.2	17.8	18.7	19.8	24.5	23.4	18.2	-----	17.0	17.8	18.7	17.5
28.....	18.2	17.8	19.2	19.8	24.3	23.2	18.0	-----	17.0	17.8	17.9	17.4
29.....	18.2	-----	19.8	19.7	24.0	23.1	17.9	-----	17.0	17.6	17.6	17.3
30.....	18.3	-----	19.8	19.8	24.1	23.1	17.8	-----	17.2	17.6	17.8	17.2
31.....	18.3	-----	19.6	-----	24.4	-----	17.7	-----	17.6	-----	-----	17.1
Means.	17.8	17.9	18.2	19.5	22.1	24.8	19.8	-----	17.1	17.3	17.7	17.6

## DESCRIPTION OF RIVER GAGES, ETC.

COLORADO RIVER, YUMA, ARIZ.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	17.1	17.2	19.8	18.5	20.5	27.0	23.9	19.6	19.2	17.2	17.2	17.7
2.....	17.0	17.2	20.2	18.4	21.0	27.0	24.1	19.8	19.1	17.1	17.3	17.7
3.....	16.9	17.2	20.0	18.3	21.2	26.7	23.9	19.8	19.2	17.0	17.3	17.5
4.....	16.9	17.3	20.0	18.4	21.8	26.4	23.8	19.8	19.1	16.9	17.3	17.5
5.....	17.0	17.4	19.7	18.3	22.3	26.2	23.6	19.9	19.0	16.8	17.4	17.5
6.....	17.0	17.7	19.6	18.3	22.6	26.2	23.2	20.0	19.1	16.8	17.5	17.6
7.....	17.0	18.0	19.5	18.3	22.8	25.9	23.0	20.4	19.3	16.8	17.5	17.6
8.....	17.0	18.3	19.3	18.3	23.2	25.6	23.1	20.1	19.3	16.8	17.5	17.5
9.....	16.9	18.5	19.2	18.3	23.8	25.4	23.0	20.0	19.0	16.8	17.5	17.5
10.....	16.8	20.8	19.0	18.2	24.1	24.9	22.6	20.2	19.3	16.8	17.5	17.5
11.....	16.6	19.2	19.0	18.2	23.9	24.7	22.7	19.8	19.1	16.8	17.5	17.5
12.....	16.4	18.7	19.2	18.2	23.6	24.5	22.6	19.4	18.8	16.8	17.5	17.5
13.....	16.3	18.8	19.2	18.2	23.7	24.2	22.4	19.3	18.7	16.8	17.5	17.6
14.....	16.2	18.8	19.3	18.0	23.8	24.2	22.1	20.0	18.7	16.8	17.7	17.5
15.....	16.2	18.6	19.3	17.9	23.5	24.0	21.9	19.5	19.0	16.8	17.6	17.5
16.....	16.3	18.5	19.3	17.9	23.4	24.2	21.7	19.3	19.0	16.8	17.7	17.5
17.....	16.5	18.7	19.5	17.9	23.4	24.3	21.3	19.3	18.7	16.8	17.7	17.5
18.....	16.5	18.7	19.6	17.9	23.7	24.4	21.2	20.7	18.5	16.9	17.7	17.7
19.....	16.8	18.6	20.0	18.0	24.0	24.5	21.1	20.0	18.3	16.9	17.7	17.7
20.....	17.0	18.3	19.8	18.1	24.2	24.2	21.0	19.6	18.2	16.9	17.6	17.7
21.....	17.0	18.2	19.6	18.1	24.5	24.0	20.9	19.6	17.9	16.9	17.5	17.8
22.....	16.8	18.1	19.3	18.2	24.8	23.8	20.9	19.3	17.8	17.0	17.5	17.8
23.....	16.8	18.0	19.2	18.2	25.2	23.7	20.8	19.2	17.7	17.1	17.5	17.8
24.....	16.8	18.0	19.1	18.3	25.5	23.5	20.6	19.0	17.6	17.2	17.5	17.8
25.....	17.0	18.2	19.0	18.6	25.6	23.3	20.4	19.1	17.6	17.2	17.5	17.8
26.....	17.1	18.4	18.8	18.7	25.9	23.2	20.2	19.1	17.6	17.2	17.5	17.7
27.....	17.1	18.7	18.8	18.8	26.3	24.3	20.1	18.8	17.6	17.2	17.5	17.6
28.....	17.1	18.8	18.7	19.2	26.7	24.7	19.9	19.2	17.5	17.2	17.5	17.5
29.....	17.0	.....	18.5	19.7	26.8	24.8	19.7	20.4	17.5	17.2	17.6	17.2
30.....	17.0	.....	18.5	19.4	26.9	24.8	19.5	20.1	17.4	17.2	17.7	17.0
31.....	17.0	.....	18.6	.....	27.0	.....	19.3	19.7	.....	17.2	.....	17.0
<b>Means.</b>	<b>16.8</b>	<b>18.3</b>	<b>19.3</b>	<b>18.4</b>	<b>24.1</b>	<b>24.8</b>	<b>21.8</b>	<b>19.7</b>	<b>18.5</b>	<b>17.0</b>	<b>17.5</b>	<b>17.6</b>
<b>1902</b>												
1.....	17.1	18.0	17.9	18.2	20.0	22.3	22.0	18.4	17.5	18.9	17.2	19.9
2.....	17.0	18.0	17.9	18.0	20.7	22.2	21.7	18.3	17.2	18.5	17.2	19.7
3.....	17.0	18.0	18.0	17.9	20.8	22.2	21.5	18.2	17.0	18.4	17.2	19.2
4.....	17.0	17.9	17.9	17.9	20.5	22.7	21.3	18.2	18.0	18.6	17.2	19.1
5.....	17.0	17.9	17.9	17.9	20.3	23.1	21.1	18.1	18.8	18.3	17.2	18.8
6.....	17.0	17.8	17.9	18.0	20.3	23.1	20.8	18.0	18.3	18.1	17.2	18.6
7.....	17.0	17.8	18.2	18.0	20.4	23.5	20.7	17.9	18.0	18.0	17.2	18.3
8.....	17.2	17.8	18.2	18.2	20.5	23.8	20.6	17.8	17.6	18.1	17.2	18.2
9.....	17.2	17.6	18.1	18.2	20.3	24.0	20.4	17.8	17.5	18.1	17.2	18.2
10.....	17.2	17.5	18.1	18.2	20.5	24.2	20.3	17.8	17.3	18.1	17.2	18.2
11.....	17.3	17.5	18.1	18.2	22.0	24.3	20.3	17.7	17.3	18.5	17.3	18.2
12.....	17.3	17.6	18.1	18.2	22.2	24.2	20.6	17.7	17.2	18.2	17.3	18.0
13.....	17.3	17.1	18.2	18.2	22.3	24.2	20.5	17.6	17.2	18.0	17.3	18.0
14.....	17.2	17.1	18.2	18.2	22.8	24.0	20.2	17.6	17.2	17.8	18.0	17.9
15.....	17.3	17.2	18.3	18.2	22.9	23.8	20.1	17.5	17.2	17.8	18.3	17.8
16.....	17.3	17.3	18.4	18.2	23.2	23.9	20.0	17.4	17.2	17.6	18.2	17.5
17.....	17.4	17.3	18.4	18.1	23.3	23.8	20.3	17.3	17.7	17.6	17.8	17.4
18.....	17.6	17.3	18.3	18.0	23.7	23.8	19.8	17.2	17.5	17.4	18.0	18.2
19.....	17.7	17.3	18.3	18.0	24.1	23.8	19.8	17.1	17.3	17.6	18.2	18.1
20.....	17.7	17.2	18.3	18.0	24.2	23.7	19.7	17.0	17.3	17.6	18.1	17.8
21.....	17.8	17.1	18.3	18.0	24.2	23.5	19.5	17.8	17.0	17.4	18.0	17.8
22.....	17.8	17.3	18.3	18.3	24.4	23.5	19.4	18.5	16.8	17.4	18.1	17.8
23.....	17.8	17.7	18.3	19.3	24.4	23.2	19.3	18.2	16.8	17.3	18.2	17.8
24.....	17.8	18.0	18.2	19.8	24.4	23.1	19.4	17.9	16.9	17.3	18.4	18.0
25.....	17.8	18.1	18.2	19.8	24.4	23.0	19.1	17.8	17.1	17.2	18.5	18.1
26.....	17.9	18.1	18.2	19.8	24.5	22.7	19.2	18.0	16.8	17.2	18.4	18.2
27.....	17.9	18.1	18.2	19.9	24.3	22.6	19.0	17.9	16.7	17.2	18.5	18.2
28.....	17.9	18.0	18.2	20.0	24.0	22.5	18.8	17.7	16.6	17.2	18.5	18.2
29.....	17.8	.....	18.2	19.8	23.5	22.3	18.5	17.3	17.5	17.2	18.4	18.1
30.....	18.0	.....	18.2	19.8	23.0	22.2	18.4	17.2	19.4	17.2	18.2	17.8
31.....	18.0	.....	18.2	.....	22.7	.....	18.3	17.2	.....	17.2	.....	17.7
<b>Means.</b>	<b>17.5</b>	<b>17.6</b>	<b>18.2</b>	<b>18.5</b>	<b>22.5</b>	<b>23.3</b>	<b>20.0</b>	<b>17.7</b>	<b>17.4</b>	<b>17.8</b>	<b>17.8</b>	<b>18.2</b>

## DESCRIPTION OF RIVER GAGES, ETC.

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## COLORADO RIVER, YUMA, ARIZ.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	17.5	17.3	17.2	20.5	20.8	23.5	27.5	21.5	.....	.....	.....	.....
2.....	17.4	17.3	17.6	20.3	21.4	23.4	27.3	21.5	.....	.....	.....	.....
3.....	17.3	17.2	17.7	20.3	21.8	23.3	27.2	21.7	.....	.....	.....	.....
4.....	17.2	17.2	17.8	20.9	21.7	23.5	27.1	21.6	.....	.....	.....	.....
5.....	17.2	17.2	17.8	20.8	21.8	23.3	26.9	21.4	.....	.....	.....	.....
6.....	17.0	17.2	17.8	21.0	21.8	23.3	26.6	21.2	.....	.....	.....	.....
7.....	16.9	17.2	18.8	20.8	21.9	23.7	26.1	20.9	.....	.....	.....	.....
8.....	16.8	17.2	19.0	21.7	22.0	24.0	26.0	20.9	.....	.....	.....	.....
9.....	16.9	17.3	18.8	22.5	22.0	24.5	25.3	20.8	.....	.....	.....	.....
10.....	16.9	17.5	18.5	22.9	22.0	24.7	25.0	20.7	.....	.....	.....	.....
11.....	16.8	17.8	18.4	22.2	22.1	25.0	24.5	20.5	.....	.....	.....	.....
12.....	16.8	17.8	18.2	21.9	22.3	25.1	23.9	20.3	.....	.....	.....	.....
13.....	16.8	17.8	18.2	21.4	22.6	25.3	23.5	20.2	.....	.....	.....	.....
14.....	16.9	18.0	18.3	21.0	22.8	25.6	23.0	20.1	.....	.....	.....	.....
15.....	17.1	18.0	19.8	20.7	23.2	25.7	22.6	20.0	.....	.....	.....	.....
16.....	17.1	18.0	19.6	20.6	23.5	25.9	22.3	20.0	.....	.....	.....	.....
17.....	17.2	17.8	19.6	20.5	23.8	26.3	22.7	19.9	.....	.....	.....	.....
18.....	17.1	17.6	19.5	20.4	24.0	26.4	22.8	19.9	.....	.....	.....	.....
19.....	17.1	17.4	19.8	20.5	24.2	26.6	22.8	19.8	.....	.....	.....	.....
20.....	17.0	17.3	19.7	20.7	24.3	26.8	22.7	19.8	.....	.....	.....	.....
21.....	17.0	17.2	19.5	20.7	24.5	26.9	22.5	19.8	.....	.....	.....	.....
22.....	17.0	17.2	20.4	20.6	24.9	27.1	22.5	19.7	.....	.....	.....	.....
23.....	17.1	17.3	20.7	20.6	25.2	27.2	22.2	19.6	.....	.....	.....	.....
24.....	17.2	17.2	20.4	20.5	25.7	27.4	22.2	19.5	.....	.....	.....	.....
25.....	17.3	17.3	20.2	20.6	25.8	27.5	22.8	19.4	.....	.....	.....	.....
26.....	17.4	17.3	20.0	20.8	25.8	27.7	23.2	19.2	.....	.....	.....	.....
27.....	17.4	17.2	20.1	20.8	25.3	27.7	23.1	19.2	.....	.....	.....	.....
28.....	17.4	17.2	20.0	20.8	24.8	27.6	22.7	19.2	.....	.....	.....	.....
29.....	17.5	.....	19.7	20.7	24.6	27.7	22.1	19.3	.....	.....	.....	.....
30.....	17.6	.....	19.7	20.8	24.2	27.6	21.8	19.4	.....	.....	.....	.....
31.....	17.4	.....	20.0	.....	23.8	.....	21.7	19.4	.....	.....	.....	.....
Means..	17.1	17.4	19.1	21.0	23.4	25.7	24.1	20.2	.....	.....	.....	.....
<b>1904</b>												
1.....	18.8	18.8	19.5	20.0	21.9	25.5	25.0	22.2	22.0	19.3	.....	18.9
2.....	18.8	18.8	19.5	20.0	21.8	25.8	24.8	22.2	21.9	19.3	.....	19.0
3.....	18.8	18.9	19.5	20.0	21.8	26.0	24.7	22.2	22.2	19.3	.....	19.0
4.....	18.8	18.9	19.6	20.1	21.7	26.1	24.4	22.2	22.0	19.3	.....	19.0
5.....	18.7	18.9	19.6	20.1	21.5	26.1	24.2	22.0	21.9	19.3	.....	18.9
6.....	18.8	18.9	19.5	20.2	21.5	26.0	24.0	22.2	22.5	20.4	.....	18.8
7.....	18.7	18.8	19.6	20.6	21.8	26.0	23.9	22.2	22.2	20.0	.....	18.8
8.....	18.6	18.8	19.7	20.6	22.0	25.9	23.8	22.2	21.8	20.0	.....	18.8
9.....	18.6	18.8	19.8	20.4	22.2	25.8	23.5	22.2	21.8	20.0	.....	18.8
10.....	18.7	18.8	19.9	20.2	23.0	25.5	23.3	22.2	21.6	20.5	.....	18.8
11.....	18.6	18.8	20.0	20.0	23.1	25.4	23.2	22.0	21.0	20.3	.....	18.8
12.....	18.6	18.8	20.0	20.0	22.6	25.0	23.0	21.9	21.0	20.2	.....	18.8
13.....	18.4	18.8	20.7	20.0	22.7	24.8	22.9	21.8	20.9	21.0	.....	18.7
14.....	18.6	18.8	20.5	19.9	22.5	24.5	22.9	21.8	20.8	21.5	.....	18.6
15.....	18.7	18.8	20.2	19.9	22.4	24.4	22.9	21.9	20.5	22.5	.....	18.6
16.....	18.7	18.8	19.9	19.9	22.7	24.4	22.8	21.8	20.2	22.8	.....	18.6
17.....	18.7	18.8	19.9	19.9	22.8	24.5	22.8	21.8	20.1	22.2	.....	18.7
18.....	18.6	18.9	19.8	19.9	22.7	24.6	22.8	21.7	20.0	21.8	.....	18.8
19.....	18.6	19.0	19.8	19.9	22.9	24.6	22.6	21.5	20.0	20.8	.....	18.8
20.....	18.7	19.0	19.9	20.3	23.3	24.9	22.5	21.4	19.8	20.8	.....	18.8
21.....	18.8	19.1	19.9	20.2	23.7	25.2	22.5	21.3	19.8	20.8	.....	18.7
22.....	18.8	19.1	19.8	20.2	23.9	25.2	22.3	21.4	20.0	20.5	.....	18.5
23.....	18.8	19.2	19.9	20.2	24.1	25.4	22.2	21.3	19.8	20.5	.....	18.4
24.....	18.8	19.2	19.9	20.2	24.2	25.6	22.2	22.9	19.8	20.4	.....	18.3
25.....	18.8	19.3	19.9	20.3	24.2	25.6	22.2	22.8	19.7	20.0	.....	18.3
26.....	18.8	19.3	19.9	20.2	24.5	25.6	22.1	22.0	19.6	20.0	.....	18.2
27.....	18.8	19.2	20.0	21.6	24.8	25.5	22.2	22.0	19.6	20.0	.....	18.2
28.....	18.8	19.2	20.2	21.8	24.8	25.3	22.2	22.2	19.5	20.0	.....	18.2
29.....	18.8	19.3	20.2	22.0	25.0	25.4	22.0	22.5	19.5	20.0	.....	18.3
30.....	18.8	.....	20.1	22.0	25.2	25.3	22.1	22.8	19.3	19.9	.....	18.5
31.....	18.8	.....	20.2	.....	25.2	.....	22.4	22.2	.....	19.9	.....	18.5
Means...	18.7	19.0	19.9	20.4	23.1	25.3	23.0	22.0	20.7	20.4	.....	18.6

## DESCRIPTION OF RIVER GAGES, ETC.

## COLUMBIA RIVER SYSTEM—KOOTENAI RIVER, BONNERS FERRY, IDAHO.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1					19.6	20.9	19.2	10.4	5.0	1.6	0.0	-0.1
2					19.7	21.0	19.3	10.0	4.9	1.5	0.0	-0.1
3					19.2	21.2	19.4	9.8	4.7	1.3	-0.1	-0.2
4					18.8	21.0	19.5	9.6	4.6	1.0	-0.1	-0.2
5					18.4	20.9	19.6	9.0	4.4	0.9	-0.1	-0.3
6					17.8	20.9	19.3	8.6	4.2	0.8	-0.1	-0.5
7					17.7	21.7	19.3	8.0	4.0	0.8	-0.2	-0.7
8					17.4	22.9	19.3	8.0	3.9	0.7	-0.2	-0.9
9					17.6	23.8	19.4	7.9	3.8	0.6	-0.2	-1.0
10					16.2	23.0	19.4	7.8	3.7	0.6	-0.2	-1.0
11					15.5	22.8	19.3	7.6	3.6	0.6	-0.2	-1.1
12					15.3	22.0	18.3	7.4	3.6	0.6	-0.2	-1.2
13					15.3	21.6	17.5	7.4	3.4	0.6	-0.2	-1.2
14					15.3	20.9	17.2	7.3	3.2	0.6	-0.3	-1.1
15					15.7	20.4	17.0	7.2	3.0	0.6	-0.3	-1.0
16					16.2	20.2	16.8	7.1	2.8	0.6	-0.3	-1.0
17					16.5	20.7	16.0	6.9	2.7	0.6	-0.3	-1.1
18					16.7	21.6	15.5	6.6	2.6	0.6	0.2	-1.2
19					17.5	21.9	15.2	6.4	2.6	0.5	0.1	-1.2
20					18.6	22.5	14.8	6.2	2.4	0.4	0.0	-1.3
21					19.8	22.4	14.0	6.0	2.4	0.4	0.2	-1.3
22					22.1	22.5	13.0	6.0	2.4	0.4	0.5	-1.4
23					23.0	22.3	12.7	6.0	2.3	0.4	0.6	-1.5
24					23.8	22.1	12.0	6.0	2.2	0.4	0.6	-1.6
25					24.0	21.6	11.8	5.9	2.0	0.3	0.6	-1.4
26					23.5	21.4	11.7	5.7	2.0	0.2	0.3	Frozen.
27					22.5	20.0	11.3	5.6	1.9	0.1	0.2	.....
28					22.4	19.4	11.0	5.6	1.9	0.0	0.0	.....
29					22.1	19.2	10.8	5.4	1.8	0.0	-0.1	.....
30					21.8	19.0	10.7	5.2	1.7	0.0	-0.1	.....
31					21.0	.....	10.5	5.0	.....	0.0	.....	.....
Means.					19.1	21.4	15.8	7.1	3.1	0.6	0.0	-0.9

## COLUMBIA RIVER SYSTEM—PEND D'OREILLE RIVER, NEWPORT, WASH.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1					10.3	15.4	12.1	5.3	0.9	-0.8	-1.3	-1.2
2					10.7	15.5	11.8	4.9	0.9	-0.8	-1.4	-1.2
3					10.8	15.6	11.5	4.6	0.9	-0.8	-1.4	-1.2
4					11.2	15.7	11.3	4.4	0.9	-0.8	-1.4	-1.1
5					11.4	15.8	11.1	4.2	0.8	-0.8	-1.4	-1.1
6					11.7	15.5	10.9	4.0	0.7	-0.8	-1.4	-1.1
7					11.9	15.5	10.7	3.8	0.6	-0.8	-1.4	-1.1
8					12.1	15.5	10.5	3.6	0.6	-0.9	-1.4	-1.1
9					12.2	15.4	10.2	3.4	0.5	-0.9	-1.4	-1.1
10					12.2	15.4	10.0	3.3	0.4	-0.9	-1.4	-1.1
11					12.2	15.4	9.8	3.2	0.3	-0.9	-1.4	-1.2
12					12.2	15.3	9.5	3.1	0.2	-0.9	-1.4	-1.3
13					12.2	15.1	9.3	3.0	0.1	-1.0	-1.4	-1.3
14					12.1	15.1	9.1	2.9	0.0	-1.0	-1.5	-1.4
15					12.1	14.9	8.8	2.8	0.0	-1.0	-1.5	-1.4
16					12.1	14.6	8.6	2.7	0.0	-1.0	-1.5	-1.3
17					12.1	14.4	8.4	2.6	0.0	-1.1	-1.5	-1.3
18					12.1	14.2	8.2	2.5	0.0	-1.1	-1.6	-1.3
19					12.3	14.1	7.9	2.3	0.0	-1.2	-1.6	-1.3
20					12.5	14.1	7.7	2.2	-0.2	-1.2	-1.5	-1.3
21					12.6	14.0	7.5	2.1	-0.3	-1.3	-1.5	-1.3
22					12.6	14.0	7.2	2.0	-0.4	-1.3	-1.5	-1.4
23					13.0	14.0	6.9	2.0	-0.5	-1.3	-1.4	-1.3
24					13.6	13.8	6.7	2.0	-0.5	-1.3	-1.4	-1.3
25					13.9	13.6	6.6	1.7	-0.6	-1.3	-1.4	-1.4
26					14.3	13.5	6.4	1.5	-0.6	-1.3	-1.3	-1.4
27					14.6	13.1	6.1	1.4	-0.6	-1.3	-1.3	-1.4
28					14.8	13.0	5.8	1.4	-0.6	-1.4	-1.2	-1.4
29					14.9	12.7	5.5	1.4	-0.6	-1.4	-1.2	-1.4
30					15.1	12.4	5.4	1.3	-0.6	-1.4	-1.2	-1.3
31					15.4	.....	5.3	1.3	.....	-1.4	.....	-1.3
Means.					12.6	14.6	8.6	2.8	0.1	-1.1	-1.4	-1.3

## COLUMBIA RIVER SYSTEM—SNAKE RIVER, WEISER, IDAHO.

	May.		May.	June.		May.	June.		May.	June.		Apr.	May.	June.
1900		1901			1902			1903			1904			
1		1		6.9	1			1		7.4	1		9.7	12.6
2		2		6.9	2		7.4	2		8.1	2		9.6	12.5
3		3		6.8	3		7.4	3		8.7	3		9.7	12.4
4		4		6.7	4		7.3	4		9.2	4		10.1	12.1
5		5		6.4	5		7.0	5		9.3	5		10.3	12.0
6		6		6.2	6		7.3	6		9.3	6		10.4	11.9
7		7		5.9	7		7.2	7		9.5	7		10.3	11.7
8		8		5.5	8		7.0	8		9.7	8		10.2	11.7
9		9		5.3	9		6.9	9		9.9	9		10.1	11.6
10		10		5.0	10		6.8	10		10.0	10		10.1	11.4
11		11		4.8	11		7.3	11		10.1	11		10.4	11.2
12		12		4.6	12		7.4	12		10.1	12		10.6	11.0
13		13		4.4	13		7.3	13		10.2	13	8.5	10.6	10.8
14	6.6	14		4.3	14		7.3	14		10.2	14	9.8	10.5	10.6
15	6.5	15	8.0	4.1	15		7.2	15		10.0	15	10.7	10.6	10.5
16	6.7	16	8.2		16		7.3	16		9.9	16	11.7	10.8	10.4
17	6.6	17	8.4		17		7.2	17	8.0	9.7	17	12.6	10.9	10.2
18	6.7	18	8.7		18		7.0	18		9.6	18	11.6	11.0	10.5
19	6.5	19	8.8		19		6.8	19	7.6	9.4	19	11.4	11.1	10.6
20	6.1	20	8.6		20	6.6	6.7	20	7.5	9.2	20	11.8	11.4	10.5
21	5.9	21	8.2		21	6.7	6.4	21	7.4	9.2	21	12.5	11.6	10.4
22	5.6	22	7.9		22	6.8	6.1	22	7.3	8.9	22	12.0	12.0	10.3
23	5.5	23	7.7		23	6.5	5.8	23	7.1	8.8	23	11.2	12.4	10.0
24		24	7.4		24	6.4		24	7.0	8.6	24	10.5	12.8	9.9
25	5.3	25	7.3		25			25	6.6	8.4	25	10.1	13.0	9.6
26	5.2	26	7.4		26	5.8		26	6.5	8.1	26	10.0	13.1	9.4
27		27	7.5		27	5.8		27	6.5	8.0	27	10.0	12.8	9.2
28		28	7.5		28	6.1		28	6.4	7.9	28	10.4	12.6	8.9
29		29	7.6		29	6.6		29	6.7	7.5	29	10.3	12.5	8.8
30		30	7.4		30	6.9		30	6.7	7.3	30	10.0	12.6	8.6
31		31	7.1		31	7.0		31	7.0		31		12.6	
Means		Means	7.9	5.6	Means		6.7	Means		9.1	Means	10.8	11.2	10.7

## COLUMBIA RIVER SYSTEM—SNAKE RIVER, LEWISTON, IDAHO.

	May.	June.		May.	June.		May.	June.		May.	June.	July.
1900			1901			1902			1903			
1			1		13.3	1		12.0	1	8.6	11.7	8.9
2			2		12.5	2		12.0	2	8.2	13.8	8.5
3			3		11.0	3		11.0	3	8.0	15.4	8.1
4	9.2		4		11.7	4		10.4	4	8.1	16.1	7.8
5	10.0		5		11.9	5		9.3	5	8.4	15.5	7.6
6	11.0		6		11.7	6		8.6	6	9.1	14.9	7.6
7	11.5		7		11.9	7		9.0	7	9.6	14.7	7.5
8	11.6		8		12.0	8		9.1	8	10.0	15.0	7.4
9	11.6		9		12.2	9		9.3	9	9.8	15.4	7.2
10	12.0		10		12.8	10		10.9	10	9.5	15.7	7.0
11	12.8		11		12.8	11		11.9	11	9.3	15.5	6.6
12	13.4		12		13.0	12		11.4	12	9.0	15.3	6.2
13	14.8		13		13.9	13	9.2	11.2	13	9.2	15.3	5.8
14	14.2		14		14.7	14	9.6	10.8	14	10.3	14.9	
15	13.4		15		15.4	15	11.0	9.7	15	11.6	14.3	
16	12.8		16		15.7	16	12.0	8.9	16	11.5	14.1	
17	14.7		17		16.4	17	11.4	8.7	17	11.0	13.9	
18	13.9		18		17.2	18	11.2	8.4	18	10.5	13.6	
19	13.2		19		16.6	19	10.5	7.8	19	10.0	13.1	
20	12.5		20		15.8	20	9.4	7.8	20	9.3	12.4	
21	12.1		21		14.8	21	10.8		21	8.9	12.1	
22	11.9		22		14.2	22	10.3		22	8.6	11.9	
23	11.7		23		13.4	23	10.0		23	8.2	11.5	
24	11.3		24		12.9	24	9.5		24	7.9	11.2	
25	11.1		25		12.4	25	9.1		25	7.7	10.5	
26	10.8	7.1	26		13.1	26	9.0		26	7.7	10.0	
27		6.8	27		13.6	27	9.5		27	8.0	9.9	
28		6.6	28		14.1	28	10.2		28	8.9	9.6	
29		6.2	29		14.3	29	12.7		29	9.0	9.9	
30		5.9	30		15.0	30	13.1		30	9.2	9.5	
31			31		14.2	31	12.8		31	10.0		
Means	12.2		Means	13.7		Means	10.6	9.9	Means	9.2	13.2	

## DESCRIPTION OF RIVER GAGES, ETC.

## COLUMBIA RIVER SYSTEM—SNAKE RIVER, LEWISTON, IDAHO—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1					12.3	15.5	10.3	3.7	2.0	1.6	2.0	2.0
2					12.0	15.7	10.3	3.6	1.8	1.6	2.0	2.1
3					12.2	15.6	10.0	3.4	1.8	1.6	2.0	2.1
4					12.1	15.3	10.0	3.3	1.8	1.6	2.0	2.0
5					12.4	14.7	9.5	3.2	1.8	1.5	2.0	1.7
6					12.4	14.5	9.2	3.1	1.8	1.6	2.0	1.5
7					12.4	15.2	9.0	3.0	1.7	1.9	2.0	1.4
8					12.1	14.8	8.8	2.9	1.7	2.0	2.0	1.3
9					11.8	14.4	8.5	2.7	1.7	2.0	2.0	1.4
10				9.2	11.7	14.2	8.4	2.6	1.7	2.0	2.0	1.6
11				10.3	12.3	14.2	8.2	2.5	1.6	2.0	2.0	1.8
12				11.8	12.5	13.5	8.0	2.4	1.6	2.1	2.0	1.9
13				13.2	12.7	13.0	7.7	2.3	1.6	2.1	2.0	1.9
14				14.5	12.6	12.8	7.4	2.1	1.5	2.0	1.9	1.9
15				15.7	13.3	12.8	7.0	2.0	1.5	2.1	1.9	1.9
16				17.2	13.4	13.0	6.8	1.9	1.5	2.1	1.9	1.9
17				16.2	13.5	13.6	6.7	1.8	1.5	2.2	1.9	1.9
18				15.2	13.8	14.0	6.5	1.8	1.5	2.2	2.0	1.9
19				14.7	14.3	14.2	6.1	1.7	1.5	2.1	2.0	1.9
20				14.7	14.5	13.8	5.9	1.7	1.5	2.1	2.1	1.9
21				14.9	14.8	13.3	5.7	1.6	1.4	2.0	2.1	1.9
22				15.2	15.8	13.0	5.5	1.6	1.4	2.0	2.0	1.9
23				14.4	16.8	12.8	5.3	1.6	1.4	2.1	2.0	1.9
24				13.3	17.6	12.2	5.2	1.6	1.5	2.1	2.0	1.9
25				12.3	17.9	11.6	5.0	1.6	1.5	2.1	2.1	1.9
26				11.8	17.0	11.0	4.8	1.6	1.5	2.1	2.1	1.9
27				11.9	16.1	10.6	4.5	1.6	1.6	2.0	2.1	1.8
28				13.0	15.5	10.3	4.4	1.6	1.6	2.0	2.0	1.6
29				13.5	15.3	10.1	4.2	2.4	1.7	2.0	2.0	1.3
30				13.2	15.2	10.1	4.0	2.3	1.6	2.0	2.0	1.2
31					15.4		3.8	2.1		2.0		2.0
Means.				13.6	13.9	13.3	7.0	2.3	1.6	2.0	2.0	1.8

## COLUMBIA RIVER SYSTEM—SNAKE RIVER, PASCO, WASH.

1904												
1					12.5	14.8						
2					12.3	15.0						
3					12.0	15.1						
4					11.9	15.1						
5					12.0	14.8						
6					12.0	14.7						
7					12.0	14.5						
8					11.9	15.0						
9					11.6	15.0						
10					11.3	14.9						
11					11.3	14.6						
12					11.6	14.5						
13					11.7	14.0						
14					11.7	13.6						
15					11.8	13.5						
16					12.0	13.5						
17					12.3	14.0						
18					12.5	14.2						
19					12.8	14.3						
20					13.0	14.4						
21					13.2	14.2						
22					13.6	14.0						
23					14.5	13.8						
24					15.6	13.9						
25					16.2	13.2						
26					16.0	12.6						
27					15.2	12.2						
28					14.7	11.9						
29					14.5	11.5						
30					14.5	11.0						
31					14.8							
Means.					13.0	13.9						



## COLUMBIA RIVER SYSTEM—SNAKE RIVER, RIPARIA, WASH.

	May.		May.	June.		May.	June.
1900		1901			1902		
1.....		1.....		13.2	1.....		13.2
2.....		2.....		12.6	2.....		13.2
3.....		3.....		12.2	3.....		12.3
4.....		4.....		12.2	4.....		12.0
5.....		5.....		11.8	5.....		11.5
6.....		6.....		11.1	6.....		11.1
7.....		7.....	11.0	10.5	7.....		10.8
8.....	11.9	8.....	12.1	10.1	8.....		10.8
9.....	11.9	9.....	12.3	9.8	9.....		11.1
10.....	12.0	10.....	12.6	9.4	10.....		12.0
11.....	12.8	11.....	12.8	9.1	11.....		13.0
12.....	13.0	12.....	12.8	8.8	12.....		12.8
13.....	14.5	13.....	13.6	8.6	13.....		12.5
14.....	14.0	14.....	13.9	8.5	14.....	11.3	12.0
15.....	13.6	15.....	15.9	8.2	15.....	12.2	11.4
16.....	13.9	16.....	15.3		16.....	13.0	11.0
17.....	14.0	17.....	16.0		17.....	12.5	10.8
18.....	13.9	18.....	16.9		18.....	<sup>a</sup> 12.8	10.2
19.....	13.4	19.....	16.5		19.....	11.8	<sup>a</sup> 9.1
20.....	12.8	20.....	15.7		20.....	11.1	9.6
21.....	12.2	21.....	14.7		21.....	12.0	9.3
22.....	12.0	22.....	14.2		22.....	11.8	9.2
23.....	12.1	23.....	13.5		23.....	11.7	9.2
24.....	11.8	24.....	12.8		24.....	11.3	
25.....	11.3	25.....	12.5		25.....	11.1	
26.....	11.0	26.....	12.9		26.....	10.9	
27.....		27.....	13.6		27.....	11.2	
28.....		28.....	14.0		28.....	12.0	
29.....		29.....	14.2		29.....	13.4	
30.....		30.....	14.8		30.....	<sup>a</sup> 13.1	
31.....		31.....	14.0		31.....	13.8	
Mean.....	12.7	Means.....	13.9	10.4	Means.....	12.1	11.2

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....					12.6	15.0	9.6	4.2	2.2	2.0	2.4	.....
2.....					12.0	15.2	9.8	4.0	2.2	2.0	2.4	.....
3.....					12.2	15.0	9.7	4.0	2.2	2.0	2.4	.....
4.....					12.0	14.8	9.6	3.8	2.2	2.0	2.4	.....
5.....					12.3	14.3	9.4	3.6	2.2	2.1	2.4	.....
6.....					12.2	14.0	8.9	3.5	2.2	2.1	2.4	.....
7.....					12.1	14.6	8.6	3.3	2.1	2.2	2.4	.....
8.....					12.0	14.4	8.4	3.0	2.1	2.2	2.4	.....
9.....					11.7	13.5	7.8	3.0	2.1	2.2	2.4	.....
10.....					11.6	13.4	7.8	2.8	2.1	2.2	2.4	.....
11.....					12.2	13.5	7.9	2.7	2.1	2.2	2.6	.....
12.....					12.3	12.2	8.0	2.6	2.1	2.3	2.6	.....
13.....					12.5	11.2	8.0	2.5	2.1	2.4	2.6	.....
14.....					12.7	12.0	7.6	2.4	2.1	2.4	2.6	.....
15.....					13.0	12.5	7.2	2.3	2.1	2.4	2.5	.....
16.....					13.1	12.8	7.0	2.2	2.1	2.4	2.5	.....
17.....					13.2	13.1	6.9	2.1	2.1	2.4	2.4	.....
18.....					13.6	13.6	6.8	2.0	2.1	2.4	2.4	.....
19.....					14.0	13.9	6.6	2.0	2.1	2.4	2.4	.....
20.....					14.4	13.3	6.3	2.0	2.1	2.4	2.4	.....
21.....					14.6	12.5	6.2	2.0	2.1	2.4	2.4	.....
22.....					15.6	12.3	6.1	2.0	2.1	2.4	2.3	.....
23.....					16.3	12.6	6.0	2.0	2.1	2.4	2.3	.....
24.....					17.2	11.9	5.8	2.0	2.1	2.4	2.3	.....
25.....					17.8	11.2	5.7	2.0	2.0	2.4	2.3	.....
26.....					16.6	10.5	5.6	2.0	2.0	2.4	2.3	.....
27.....					15.8	10.1	5.6	2.0	2.0	2.4	2.3	.....
28.....					15.2	10.0	5.5	2.0	2.0	2.4	2.3	.....
29.....					14.9	9.8	5.0	2.4	2.0	2.4	2.3	.....
30.....					14.8	9.6	4.8	2.4	2.0	2.4	2.3	.....
31.....					14.9	.....	4.6	2.2	.....	2.4	.....	.....
Means.....					13.7	12.8	7.2	2.6	2.1	2.3	2.4	.....

<sup>a</sup> Doubtful.

## DESCRIPTION OF RIVER GAGES, ETC.

## COLUMBIA RIVER SYSTEM—COLUMBIA RIVER, NORTHPORT, WASH.

	May.	June.		May.	June.		May.	June.
<b>1900</b>			<b>1901</b>			<b>1902</b>		
1			1		30.1	1		28.0
2			2		31.7	2		28.7
3			3		32.1	3		28.8
4	10.0		4		32.5	4		28.9
5	10.9		5		32.2	5		28.6
6	12.3		6		31.8	6		28.1
7	13.3		7		31.4	7		27.8
8	14.5		8		30.5	8		27.4
9	15.6		9		29.5	9		27.2
10	16.6		10		28.5	10		27.1
11	17.7		11		27.5	11		27.0
12	18.5		12		26.5	12		26.7
13	19.1		13		25.5	13		26.5
14	19.8		14		24.7	14	7.0	26.0
15	20.3		15	10.0	23.8	15	10.0	25.6
16	21.1		16	11.4		16	11.0	25.2
17	21.9		17	13.0		17	11.5	24.8
18	22.1		18	15.7		18	13.0	24.3
19	22.3		19	16.2		19	14.0	23.8
20	22.2		20	16.9		20	15.5	23.1
21	22.5		21	17.7		21	16.8	22.6
22	22.5		22	18.5		22	17.8	22.0
23	22.1		23	19.2		23	19.0	21.7
24	21.8		24	19.6		24	20.5	
25	21.4		25	20.4		25	21.5	
26	21.1	27.3	26	21.4		26	22.5	
27		28.1	27	22.7		27	23.9	
28		28.5	28	24.5		28	25.0	
29		29.0	29	26.5		29	26.0	
30			30	28.3		30	27.0	
31			31	29.3		31	27.0	
Mean	18.7		Means	19.5	29.2	Means	18.3	26.1

	May.	June.	July.		May.	June.
<b>1903</b>				<b>1904</b>		
1		15.3	35.0	1	10.4	19.8
2		17.4	34.8	2	10.9	20.1
3		19.6	33.0	3	11.5	20.2
4		21.9	31.4	4	12.3	20.3
5		23.6		5	12.5	20.6
6		25.6	29.0	6	12.7	21.6
7		27.7	27.3	7	12.8	22.6
8		28.8	26.3	8	12.9	23.1
9		30.3	26.1	9	13.0	23.5
10		31.6		10	13.1	23.8
11		32.8		11	13.0	23.7
12		34.3		12	12.7	23.2
13		35.6		13	12.5	22.9
14		37.0		14	12.5	22.6
15	6.8	38.3		15	12.6	22.3
16	7.1	39.1		16	12.6	22.4
17	7.6	39.8		17	12.6	22.6
18	8.3	40.6		18	12.8	22.8
19	8.9	40.9		19	13.0	23.3
20	9.3	41.0		20	13.6	23.8
21	9.7	40.7		21	14.4	24.2
22	9.8	40.5		22	15.3	24.6
23	9.9	40.2		23	16.0	24.3
24	10.0	39.8		24	16.6	24.1
25	10.7	39.2		25	17.3	23.6
26	10.8	38.5		26	17.9	23.0
27	11.2	37.9		27	18.4	22.5
28	11.5	37.4		28	18.9	21.9
29	11.5	36.6		29	19.0	21.6
30	11.8	36.0		30	19.5	21.4
31	13.0			31	19.7	
Means	9.9	33.6		Means	14.3	22.5

## DESCRIPTION OF RIVER GAGES, ETC.

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## COLUMBIA RIVER SYSTEM—COLUMBIA RIVER, WENATCHEE, WASH.

	May.		May.	June.		May.	June.		May.	June.	July.
1900		1901			1902			1903			
1		1		40.0	1		37.7	1		28.0	42.4
2		2		40.2	2		37.8	2		30.1	42.0
3	20.5	3		40.6	3		37.5	3		32.5	41.7
4	21.9	4		40.8	4		37.0	4		34.0	41.3
5	23.5	5		40.8	5		37.0	5		36.1	40.3
6	24.6	6		40.0	6		38.7	6		37.5	39.2
7	25.2	7		39.5	7		35.8	7		38.5	38.0
8	25.8	8		38.5	8		36.0	8		39.5	37.0
9	26.3	9		37.7	9		35.8	9		40.9	36.5
10	26.8	10		37.0	10		35.9	10		42.3	
11	27.2	11		36.0	11		36.0	11		43.5	
12	28.0	12		35.5	12		36.0	12		44.5	
13	28.1	13		35.0	13		36.5	13		45.5	
14	28.4	14	20.3	34.3	14	19.3	35.5	14	19.2	45.8	
15	28.8	15	23.0	34.0	15	20.0	34.0	15	20.1	46.5	
16	28.8	16	24.0		16	21.2	34.5	16	21.7		
17	28.9	17	25.0		17	24.0	34.5	17	22.7	47.6	
18	29.5	18	26.5		18	26.0	34.0	18	22.7	47.9	
19	30.0	19	28.5		19	26.5	33.5	19	22.8	47.8	
20	30.0	20	29.0		20	27.0	33.2	20	23.2	47.8	
21	30.0	21	29.2		21	27.5	32.6	21	23.5	47.8	
22	30.0	22	29.3		22	28.0	32.0	22	23.5	47.3	
23	29.7	23	29.5		23	29.0	31.0	23	23.6	46.8	
24	29.1	24	30.0		24	30.0		24	23.6	46.3	
25	28.2	25	31.0		25	32.0		25	23.6	45.5	
26	27.8	26	32.0		26	33.7		26	23.9	45.0	
27		27	33.5		27	34.5		27	24.5	44.8	
28		28	35.0		28	35.5		28	25.0	44.3	
29		29	36.4		29	36.2		29	25.7	43.8	
30		30	37.5		30	37.1		30	26.1	43.0	
31		31	38.5		31	37.6		31	26.5		
Mean	27.4	Means	29.9	38.0	Means	29.2	35.2	Means	23.4	42.4	

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1					27.9	33.0	32.0	22.7	12.4	6.8	5.5	5.1
2					28.0	33.1	32.3	22.3	12.1	6.8	5.5	5.1
3					27.9	33.1	32.5	21.9	12.0	6.7	5.4	5.1
4					27.9	33.2	32.6	21.5	12.0	6.7	5.4	5.0
5					28.0	33.8	32.8	21.0	11.8	6.7	5.4	5.0
6					28.0	34.0	33.0	20.8	11.6	6.6	5.3	5.1
7					28.0	34.4	33.5	20.5	11.4	6.6	5.3	5.2
8					27.7	34.9	33.7	20.3	11.1	6.6	5.3	5.1
9					27.7	35.4	33.9	20.1	10.9	6.6	5.2	5.1
10					27.5	35.0	34.0	19.8	10.6	6.5	5.2	5.0
11					27.0	35.0	33.9	19.6	10.3	6.5	5.2	5.0
12					26.9	35.0	33.8	19.4	10.1	6.4	5.2	4.9
13					26.8	34.2	33.6	19.2	10.0	6.4	5.3	4.9
14					26.6	34.4	33.4	19.0	10.0	6.3	5.2	4.9
15					26.8	34.4	33.1	18.7	9.9	6.3	5.2	4.9
16					27.0	34.3	32.7	18.5	9.7	6.3	5.2	4.8
17					27.2	33.8	31.9	18.3	9.5	6.2	5.1	4.8
18				20.1	27.2	33.9	31.2	17.8	9.4	6.2	5.1	4.7
19				20.2	27.2	34.2	30.7	17.3	9.3	6.2	5.0	4.7
20				20.3	27.7	34.4	29.5	16.9	9.2	6.1	5.0	4.6
21				20.5	28.5	35.0	28.2	16.5	9.0	6.1	5.0	4.6
22				21.3	29.5	35.0	27.0	16.1	8.8	6.1	5.1	4.6
23				22.5	30.2	34.8	26.6	15.8	8.5	6.0	5.2	4.6
24				23.2	31.2	34.3	26.2	15.6	8.2	6.0	5.2	4.5
25				23.4	31.6	34.0	26.0	15.2	7.9	6.0	5.2	4.5
26				23.4	31.6	33.6	25.3	14.7	7.7	5.9	5.3	4.5
27				23.5	31.7	33.2	24.5	14.2	7.4	5.8	5.3	4.4
28				24.4	31.9	32.9	24.1	13.6	7.1	5.8	5.2	4.4
29				25.8	32.1	32.7	23.7	13.0	6.9	5.7	5.2	4.4
30				27.0	32.6	32.0	23.3	12.6	6.8	5.6	5.1	4.3
31					33.0		23.0	12.0		5.5		4.3
Means					28.8	34.0	30.1	17.9	9.7	6.3	5.2	4.8

## DESCRIPTION OF RIVER GAGES, ETC.

## COLUMBIA RIVER SYSTEM—COLUMBIA RIVER, PASCO, WASH.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1					14.0	16.2						
2					14.0	16.4						
3					13.9	16.8						
4					13.9	16.8						
5					13.9	16.5						
6					13.9	16.5						
7					13.9	16.5						
8					13.8	17.0						
9					13.5	17.0						
10					13.3	16.8						
11					13.2	16.7						
12					13.3	16.6						
13					13.3	16.4						
14					13.3	16.0						
15					13.4	15.7						
16					13.6	15.8						
17					13.7	16.1						
18					13.9	16.2						
19					14.0	16.4						
20					14.2	16.5						
21					14.5	16.4						
22					14.9	16.3						
23					15.8	16.2						
24					16.7	16.1						
25					17.0	15.8						
26					17.0	15.4						
27					16.5	15.0						
28					16.4	14.9						
29					16.2	14.5						
30					16.2	14.2						
31					16.5							
Means					14.6	16.1						

## COLUMBIA RIVER SYSTEM—COLUMBIA RIVER, UMATILLA, OREG.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1	5.6	5.0	2.2	8.5	12.0	16.1	16.6	10.1	6.7	4.8	5.5	3.7
2	5.5	4.9	2.4	8.9	12.3	15.9	16.5	10.0	6.6	4.7	5.4	3.7
3	5.4	4.7	2.6	9.3	12.5	15.8	16.3	9.9	6.6	4.6	5.4	3.7
4	5.4	4.6	2.8	9.8	13.2	15.9	16.2	9.8	6.4	4.4	5.5	3.7
5	5.3	4.5	3.0	9.9	13.8	16.0	16.0	9.7	6.2	4.3	5.5	3.9
6	5.3	4.4	3.3	10.0	14.6	16.0	15.6	9.6	6.1	4.3	5.3	5.0
7	5.4	4.2	3.5	10.3	15.4	16.1	15.3	9.3	6.0	4.2	5.3	5.3
8	5.4	4.0	3.8	10.9	15.9	16.1	14.9	9.1	5.9	4.1	5.3	5.7
9	5.4	3.8	4.0	11.1	16.1	16.0	14.4	8.9	5.9	4.0	5.3	5.9
10	5.4	3.7	4.6	11.5	16.6	16.0	14.1	8.6	5.8	3.9	5.3	5.5
11	5.5	3.6	5.0	11.6	17.1	15.9	13.7	8.4	5.7	3.7	5.2	5.3
12	5.9	3.5	6.0	11.1	17.7	15.6	13.4	8.2	5.6	3.5	5.1	5.2
13	6.9	3.4	7.0	11.0	18.3	15.1	13.0	8.0	5.5	3.3	5.0	5.1
14	8.8	3.3	7.3	11.2	19.1	15.0	12.8	7.7	5.4	3.2	4.9	5.0
15	8.8	3.1	7.6	11.4	20.0	15.0	12.6	7.5	5.3	3.2	4.8	5.1
16	8.6	3.0	8.0	11.5	18.6	15.0	12.4	7.3	5.2	3.1	4.7	5.2
17	8.3	2.9	8.0	11.5	18.3	15.2	12.2	7.1	5.1	3.1	4.6	5.3
18	7.9	2.8	8.0	11.5	19.5	15.9	12.0	6.9	5.1	3.0	4.4	5.4
19	7.7	2.7	8.1	11.5	19.1	15.6	11.8	6.8	5.1	3.2	4.5	5.7
20	7.5	2.6	8.2	11.7	18.9	15.2	11.5	6.7	5.1	3.4	4.6	5.8
21	7.3	2.5	8.3	11.9	18.5	15.2	11.3	6.7	5.1	3.7	4.7	5.8
22	7.0	2.4	8.4	12.1	18.3	15.4	11.1	6.7	5.0	4.0	4.3	5.9
23	6.7	2.3	8.6	12.1	18.2	15.6	10.9	6.7	4.9	4.3	3.6	5.9
24	6.5	2.2	8.6	12.2	18.0	15.9	10.8	6.6	4.8	4.5	3.5	6.0
25	6.3	2.2	8.7	12.1	17.7	16.3	10.7	6.6	4.7	4.7	3.5	5.9
26	6.1	2.2	8.8	11.9	17.5	16.3	10.5	6.6	4.7	4.9	3.5	5.9
27	6.0	2.1	8.9	11.9	17.2	16.5	10.4	6.6	4.8	5.1	3.4	5.8
28	5.8	2.0	9.0	11.7	17.0	16.6	10.3	6.6	4.8	5.3	3.5	5.8
29	5.6		9.0	11.7	17.0	16.7	10.2	6.7	4.8	5.4	3.7	5.7
30	5.3		8.8	11.7	16.8	16.7	10.2	6.7	4.9	5.4	3.7	5.7
31	5.1		8.6		16.5		10.2	6.7		5.4		5.7
Means	6.4	3.3	6.5	11.1	16.8	15.8	12.8	7.8	5.5	4.2	4.6	5.3

## COLUMBIA RIVER SYSTEM—COLUMBIA RIVER, UMATILLA, OREG.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	5.5	2.5	8.5	5.4	8.4	22.0	15.3	11.7	7.0	3.1	-1.2	-3.3
2.....	5.4	2.4	9.5	5.3	8.9	21.8	15.1	11.5	6.9	3.0	-1.3	-3.2
3.....	5.3	2.3	10.3	5.3	9.9	21.6	14.9	11.3	6.7	2.9	-1.4	-3.1
4.....	5.1	2.1	10.9	5.2	11.5	21.7	14.6	11.1	6.7	2.8	-1.5	-3.0
5.....	4.8	1.9	10.2	5.2	12.0	21.6	14.4	10.9	6.6	2.7	-1.6	-2.9
6.....	4.5	1.7	9.5	5.1	12.5	21.4	14.4	10.8	6.6	2.5	-1.7	-2.5
7.....	4.2	1.6	8.1	5.1	12.7	20.9	14.4	10.7	6.5	2.4	-1.8	-2.1
8.....	4.0	1.4	7.8	5.0	13.2	20.4	14.4	10.5	6.4	2.3	-1.9	-2.0
9.....	3.8	1.3	7.6	5.1	13.6	20.0	14.4	10.4	6.3	2.2	-2.0	-1.6
10.....	3.6	1.1	7.4	5.2	13.9	19.5	14.4	10.2	6.2	2.1	-2.1	0.0
11.....	3.4	1.1	7.2	5.5	14.5	19.0	14.4	10.0	6.1	2.1	-2.2	1.5
12.....	3.2	1.1	7.0	5.6	14.6	18.6	14.3	9.9	6.0	2.0	-2.3	2.0
13.....	3.1	1.1	6.8	5.8	15.2	18.2	14.2	9.7	5.9	1.9	-2.3	2.5
14.....	3.7	1.1	6.5	5.9	16.2	17.9	14.1	9.5	5.7	1.8	-2.4	2.2
15.....	3.7	1.2	6.3	6.1	17.5	17.5	14.0	9.3	5.5	1.7	-2.4	1.9
16.....	3.6	1.2	6.2	6.3	17.3	17.2	13.9	9.1	5.2	1.6	-2.4	1.6
17.....	3.6	1.5	6.1	6.5	18.1	16.9	13.7	8.9	5.0	1.5	-2.4	1.3
18.....	3.5	1.8	6.0	6.5	19.0	16.6	13.5	8.7	4.8	1.4	-2.5	1.0
19.....	3.5	2.2	6.0	6.5	19.5	16.5	13.3	8.6	4.6	1.2	-2.6	0.5
20.....	3.5	2.7	6.0	6.7	19.8	16.4	13.1	8.5	4.4	1.0	-2.7	0.0
21.....	3.4	3.5	6.0	7.0	19.4	16.5	12.9	8.4	4.3	-0.1	-2.8	-0.2
22.....	3.3	4.0	6.1	7.2	18.9	16.7	12.7	8.3	4.1	-0.2	-3.0	1.4
23.....	3.3	4.5	6.1	7.3	18.6	16.8	12.6	8.2	3.9	-0.3	-3.0	2.0
24.....	3.2	5.0	6.1	7.4	18.3	16.7	12.5	8.1	3.8	-0.4	-3.1	2.5
25.....	3.2	5.5	6.2	7.6	18.1	16.6	12.4	8.0	3.7	-0.5	-3.1	3.0
26.....	3.2	6.0	6.1	7.9	18.2	16.3	12.3	7.8	3.6	-0.6	-3.2	3.5
27.....	3.1	6.6	6.1	8.1	18.9	16.1	12.2	7.5	3.5	-0.7	-3.2	3.3
28.....	3.0	7.8	6.0	8.4	19.9	15.9	12.1	7.3	3.4	-0.8	-3.3	3.1
29.....	2.8	.....	5.8	8.2	20.9	15.7	12.0	7.2	3.3	-0.9	-3.3	2.9
30.....	2.6	.....	5.6	8.1	21.5	15.5	11.9	7.1	3.2	-1.0	-3.4	2.7
31.....	2.5	.....	5.5	.....	22.1	.....	11.8	7.0	.....	-1.1	.....	2.6
Means.	3.7	2.7	7.1	6.4	16.2	18.3	13.6	9.2	5.2	1.1	-2.4	0.6
<b>1902</b>												
1.....	2.4	Frozen.	4.9	2.0	7.2	21.6	16.3	12.9	7.3	2.7	2.6	2.6
2.....	2.2	.....	4.5	2.0	7.2	21.2	16.3	12.6	7.1	2.7	2.6	2.5
3.....	2.0	.....	4.1	2.0	7.2	21.1	16.3	12.4	6.9	2.7	2.6	2.6
4.....	1.8	.....	3.6	1.9	7.3	20.7	16.3	12.1	6.8	2.6	2.6	2.7
5.....	1.8	.....	3.3	2.3	7.3	20.3	16.9	11.9	6.6	2.4	2.6	2.8
6.....	1.8	.....	3.0	2.7	7.5	20.0	17.8	11.6	6.3	2.3	2.6	2.9
7.....	1.7	.....	3.0	3.1	7.8	19.8	17.8	11.3	6.1	2.1	2.6	2.7
8.....	1.7	.....	3.0	3.5	8.3	19.5	17.7	11.0	5.9	1.9	2.6	2.6
9.....	1.9	.....	3.0	3.7	8.9	19.3	17.5	10.8	5.7	1.7	2.6	2.6
10.....	2.1	-0.2	3.1	3.9	9.9	19.5	17.4	10.7	5.5	1.6	2.8	2.6
11.....	2.3	1.0	3.2	4.1	11.0	20.1	17.1	10.5	5.3	1.5	3.0	2.8
12.....	2.6	1.3	3.3	4.5	12.0	20.5	16.8	10.1	5.1	1.4	3.0	3.0
13.....	2.8	4.3	3.4	4.8	12.8	20.4	16.8	9.9	5.0	1.3	3.0	3.0
14.....	2.8	3.0	3.5	5.1	13.4	20.0	16.6	9.8	4.9	1.1	3.1	3.0
15.....	2.7	2.3	3.6	5.0	14.2	19.7	16.3	9.7	4.7	0.9	3.1	3.0
16.....	2.6	1.7	3.8	4.9	15.0	19.3	16.0	9.4	4.6	0.8	3.1	3.0
17.....	2.5	2.9	3.7	5.2	15.9	18.9	15.8	9.2	4.4	0.9	3.1	2.9
18.....	2.3	4.0	3.6	5.4	16.4	18.6	15.4	9.1	4.2	0.9	3.1	2.7
19.....	2.1	5.0	3.1	5.7	16.8	18.2	15.3	9.0	4.0	0.8	3.0	2.7
20.....	1.9	4.7	2.8	6.4	16.7	17.8	15.2	8.9	3.8	0.8	3.0	2.6
21.....	1.8	4.4	2.5	7.1	16.6	17.5	15.0	8.8	3.6	0.7	3.0	2.6
22.....	1.7	3.7	2.5	7.4	17.4	17.3	14.8	8.6	3.4	0.7	3.0	2.5
23.....	1.6	3.2	2.5	7.7	17.4	17.1	14.6	8.4	3.2	0.8	2.9	2.4
24.....	1.5	2.8	2.5	7.7	17.7	17.0	14.4	8.2	3.0	0.8	2.9	2.3
25.....	1.4	3.5	2.4	7.5	18.0	17.0	14.2	8.1	2.9	0.8	2.8	2.2
26.....	1.3	4.3	2.4	7.3	18.2	17.0	14.0	8.0	2.8	0.8	2.8	2.2
27.....	1.2	4.5	2.4	7.2	18.5	16.8	13.9	7.9	2.8	0.8	2.7	2.1
28.....	1.1	4.7	2.3	7.1	19.1	16.6	13.8	7.7	2.8	0.8	2.7	2.3
29.....	Frozen.	.....	2.2	7.1	20.3	16.4	13.7	7.6	2.8	0.8	2.7	2.5
30.....	.....	.....	2.1	7.1	21.3	16.3	13.4	7.5	2.7	0.8	2.6	2.5
31.....	.....	.....	2.0	.....	21.7	.....	13.1	7.4	.....	0.8	.....	2.6
Means.	2.0	3.2	3.1	5.0	13.8	18.8	15.7	9.7	4.7	1.0	2.8	2.6

## DESCRIPTION OF RIVER GAGES, ETC.

COLUMBIA RIVER SYSTEM—COLUMBIA RIVER, UMATILLA, OREG.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	2.6	3.7	-0.5	8.5	10.3	15.5	21.2	11.7	7.2	6.2	5.5	4.9
2.....	2.6	3.0	-0.4	9.2	10.1	17.0	20.7	11.6	7.1	6.4	5.4	5.2
3.....	3.0	2.5	-0.3	8.7	10.1	19.0	20.1	11.3	7.1	6.5	5.3	5.7
4.....	3.5	2.2	-0.3	8.6	10.0	20.5	19.7	11.1	7.1	6.7	5.2	5.7
5.....	4.5	2.0	-0.4	8.1	10.1	21.5	19.3	10.9	7.0	6.8	5.1	5.6
6.....	5.3	1.8	-0.4	7.7	10.6	21.7	18.8	10.7	7.0	6.9	5.0	5.6
7.....	5.4	1.8	-0.4	7.3	11.2	21.9	18.5	10.5	6.9	7.1	5.1	5.4
8.....	5.0	1.5	-0.4	7.0	11.9	22.1	18.0	10.3	6.7	7.3	5.2	5.2
9.....	4.8	1.5	-0.4	6.8	12.3	22.7	18.1	10.0	6.7	7.4	5.4	5.0
10.....	4.0	1.1	-0.4	6.8	12.2	23.4	17.7	9.8	6.7	7.3	5.4	4.9
11.....	3.5	0.8	-0.4	6.8	12.1	23.9	17.3	9.6	6.5	7.2	5.4	4.8
12.....	3.0	0.6	-0.4	6.8	12.0	24.0	16.9	9.4	6.5	7.1	5.3	4.8
13.....	2.6	0.5	-0.4	6.8	11.9	24.4	16.5	9.3	6.7	7.3	5.3	4.7
14.....	2.3	0.3	-0.3	6.8	12.2	24.8	16.1	9.1	6.5	7.2	5.3	4.6
15.....	2.0	0.1	-0.2	6.7	13.1	24.8	15.8	8.9	6.4	7.1	5.2	4.5
16.....	1.8	0.0	0.0	6.5	14.2	24.8	15.4	8.8	6.3	7.0	5.2	4.3
17.....	1.7	-0.1	2.0	6.4	14.5	24.9	15.0	8.6	6.2	6.9	5.3	4.2
18.....	1.6	-0.2	2.6	6.4	14.6	25.1	14.8	8.5	6.0	6.8	5.2	4.1
19.....	1.5	-0.3	3.0	6.5	14.4	24.9	14.5	8.4	5.9	6.7	5.1	4.3
20.....	1.4	-0.3	2.8	6.9	14.1	24.6	14.3	8.3	5.7	6.5	4.9	4.2
21.....	1.2	-0.4	2.6	7.0	13.9	24.2	13.9	8.2	5.5	6.4	4.7	4.2
22.....	1.0	-0.5	2.4	7.2	13.7	24.0	13.5	8.1	5.3	6.3	4.6	4.2
23.....	0.9	-0.6	2.4	7.5	13.5	23.5	13.3	8.0	5.2	6.2	4.7	4.2
24.....	1.4	-0.6	2.4	8.1	13.3	23.1	13.1	7.9	5.2	6.1	5.1	4.1
25.....	3.5	-0.6	2.4	8.4	13.2	23.0	12.9	7.8	5.3	6.0	5.6	4.0
26.....	5.2	-0.6	2.4	8.8	13.2	22.7	12.8	7.8	5.3	5.9	5.5	3.9
27.....	6.7	-0.6	3.0	9.5	13.3	22.2	12.6	7.7	5.4	5.8	5.4	3.8
28.....	6.2	-0.6	4.7	10.3	13.7	22.0	12.4	7.7	5.5	5.7	5.3	3.7
29.....	5.9	-----	5.6	10.4	14.4	21.7	12.3	7.6	5.8	5.6	5.1	3.5
30.....	5.1	-----	7.3	10.6	14.7	21.7	12.1	7.5	5.9	5.6	5.0	3.2
31.....	4.3	-----	8.1	-----	14.9	-----	11.9	7.4	-----	5.5	-----	2.9
<b>Means.</b>	<b>3.3</b>	<b>0.6</b>	<b>1.6</b>	<b>7.8</b>	<b>12.7</b>	<b>22.7</b>	<b>15.8</b>	<b>9.1</b>	<b>6.2</b>	<b>6.6</b>	<b>5.2</b>	<b>4.5</b>
<b>1904</b>												
1.....	2.8	1.7	5.1	6.8	17.5	20.2	17.1	10.8	6.0	2.1	-0.2	0.8
2.....	2.8	1.6	4.8	6.7	17.4	20.2	17.1	10.7	5.9	2.0	-0.3	0.7
3.....	2.8	1.6	4.2	6.7	17.2	20.4	17.2	10.5	5.8	1.9	-0.3	0.5
4.....	2.7	1.5	3.9	6.8	17.2	20.3	17.0	10.3	5.7	1.5	-0.3	0.5
5.....	2.7	1.4	3.5	6.9	17.1	20.2	17.1	10.1	5.6	1.4	-0.4	0.6
6.....	2.6	1.3	3.7	7.2	17.2	20.0	17.0	9.9	5.5	1.1	-0.4	0.6
7.....	2.6	1.2	3.7	7.7	17.1	20.0	17.0	9.8	5.4	1.0	-0.4	0.1
8.....	2.5	1.1	4.0	8.0	17.0	20.6	17.0	9.6	5.3	1.0	-0.4	-0.1
9.....	2.4	1.0	6.6	7.9	16.8	20.5	16.9	9.4	5.3	0.9	-0.4	-0.4
10.....	2.2	1.1	9.4	7.9	16.6	20.4	16.9	9.3	5.1	0.8	-0.4	-0.5
11.....	2.1	1.2	9.7	8.5	16.4	20.2	16.9	9.2	5.1	0.7	-0.5	-0.3
12.....	2.0	1.2	9.2	9.8	16.7	20.0	16.9	9.1	5.1	0.8	-0.6	-0.2
13.....	2.0	1.2	8.4	11.1	16.7	19.6	16.7	9.0	5.0	0.7	-0.6	-0.2
14.....	2.0	1.3	7.5	12.5	16.8	19.2	16.5	8.9	5.1	1.1	-0.7	-0.2
15.....	2.0	1.3	6.9	13.9	16.8	19.0	16.2	8.8	5.1	1.0	-0.7	-0.2
16.....	2.0	1.4	6.7	15.4	17.1	19.0	16.0	8.6	5.1	1.0	-0.8	-0.3
17.....	2.1	1.4	6.6	16.5	17.2	19.2	15.7	8.4	5.0	0.9	-0.9	-0.2
18.....	2.2	1.8	6.4	16.6	17.4	19.5	15.6	8.2	4.9	0.8	-0.9	0.0
19.....	2.2	2.2	6.4	16.5	17.6	19.7	15.2	8.1	4.8	0.7	-0.8	0.0
20.....	2.1	2.6	6.4	16.4	17.8	19.9	14.8	7.8	4.6	0.8	-1.0	0.0
21.....	2.1	2.4	6.6	16.4	18.1	19.7	14.2	7.7	4.5	0.6	-0.8	-0.1
22.....	2.0	2.2	7.1	16.6	18.6	19.6	14.0	7.5	4.3	0.4	-0.8	-0.1
23.....	2.0	2.2	7.1	16.9	19.5	19.4	13.6	7.4	4.2	0.3	-0.4	-0.1
24.....	2.0	2.2	6.8	16.6	20.4	19.2	13.1	7.3	4.1	0.2	-0.1	0.0
25.....	2.0	4.0	6.3	16.2	21.1	18.8	12.7	7.1	3.8	0.2	0.2	-0.1
26.....	1.9	5.4	5.9	15.6	21.1	18.3	12.4	7.0	3.5	0.1	0.3	-0.2
27.....	1.9	5.6	5.5	15.1	20.6	17.9	12.1	6.8	3.4	0.0	0.5	-0.2
28.....	1.8	5.9	5.0	15.7	20.1	17.5	11.8	6.6	3.2	0.0	0.5	-0.5
29.....	1.8	5.6	4.9	16.6	19.9	17.3	11.6	6.4	2.5	0.0	0.5	-0.5
30.....	1.7	-----	5.4	17.3	19.9	17.1	11.3	6.3	2.1	-0.1	0.8	-0.7
31.....	1.7	-----	6.0	-----	20.0	-----	11.0	6.1	-----	-0.1	-----	-0.7
<b>Means.</b>	<b>2.2</b>	<b>2.2</b>	<b>6.1</b>	<b>12.4</b>	<b>18.1</b>	<b>19.4</b>	<b>15.1</b>	<b>8.5</b>	<b>4.7</b>	<b>0.8</b>	<b>-0.3</b>	<b>-0.1</b>

## COLUMBIA RIVER SYSTEM—COLUMBIA RIVER, THE DALLES, OREG.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	8.1	7.7	7.5	13.5	18.5	26.5	26.8	15.1	9.2	6.3	7.8	5.5
2.....	8.1	7.7	7.3	13.5	18.7	26.1	26.8	15.0	9.1	6.1	8.0	5.4
3.....	8.0	7.6	7.2	13.6	19.1	25.6	26.7	14.9	9.1	6.0	8.0	5.3
4.....	8.1	7.3	7.3	14.0	20.0	25.5	26.3	14.6	9.0	5.9	7.7	5.4
5.....	8.0	7.0	7.3	14.6	21.2	25.4	26.0	14.3	8.8	5.8	7.6	5.7
6.....	7.9	6.9	7.4	15.5	22.6	25.5	25.7	14.2	8.5	5.7	7.8	5.8
7.....	8.0	6.8	7.7	16.3	23.9	25.8	25.1	13.8	8.4	5.5	7.8	6.4
8.....	8.1	6.6	8.6	16.7	25.2	25.8	24.4	13.7	8.2	5.4	7.6	7.4
9.....	8.1	6.6	8.7	17.2	26.0	25.9	23.7	13.5	8.1	5.5	7.4	7.8
10.....	8.2	6.5	9.0	17.8	26.8	25.8	23.0	13.0	8.0	5.6	7.1	7.8
11.....	8.3	6.5	10.0	18.0	27.2	25.7	22.2	12.4	7.8	5.3	6.9	7.7
12.....	8.6	6.4	10.6	18.1	28.5	25.3	21.5	12.1	7.6	5.0	6.7	7.3
13.....	9.8	6.3	10.8	17.6	29.5	24.9	21.0	11.8	7.4	4.9	6.6	7.0
14.....	10.0	6.1	11.3	17.5	31.0	24.8	20.4	11.3	7.3	4.8	6.5	6.9
15.....	14.5	5.9	12.0	17.0	31.7	24.3	19.9	10.9	7.2	4.8	6.4	6.9
16.....	15.9	5.7	12.7	17.7	31.4	24.0	19.2	10.6	7.1	4.6	6.2	6.8
17.....	14.0	5.5	13.0	18.0	30.8	23.9	19.2	10.3	7.0	4.4	6.2	6.8
18.....	13.2	5.4	13.1	18.1	31.0	23.8	18.7	10.0	6.9	4.3	6.1	6.7
19.....	12.8	5.2	13.1	18.2	32.2	25.3	18.2	9.6	6.7	4.2	5.9	6.9
20.....	12.4	5.0	13.3	18.1	31.9	25.0	17.7	9.5	6.7	4.2	6.0	7.2
21.....	11.8	4.6	13.1	18.5	31.3	24.5	17.3	9.3	6.9	4.3	6.4	8.7
22.....	11.5	6.0	13.4	18.8	30.8	24.3	17.0	9.3	6.9	4.8	6.2	8.6
23.....	11.0	6.0	13.6	19.3	30.2	24.6	16.8	9.3	6.8	5.3	6.0	9.2
24.....	10.7	7.0	13.8	19.3	30.0	25.3	16.6	9.2	6.6	5.7	5.5	10.9
25.....	10.3	8.0	14.0	19.2	29.3	25.5	16.2	8.9	6.3	6.3	5.4	10.8
26.....	9.8	7.9	14.1	19.0	29.0	25.8	15.8	8.8	6.1	6.5	5.4	10.2
27.....	9.5	7.8	14.1	18.7	28.5	26.3	15.6	9.0	6.2	6.8	5.2	9.8
28.....	9.1	7.7	14.3	18.5	27.7	26.8	15.4	9.1	6.4	7.1	4.9	9.2
29.....	8.5	.....	14.5	18.3	27.6	27.0	15.2	9.3	6.5	7.3	5.0	9.2
30.....	8.0	.....	14.2	18.3	27.5	27.0	15.2	9.3	6.5	7.5	5.5	8.7
31.....	7.7	.....	13.8	.....	27.3	.....	15.1	9.2	.....	7.6	.....	8.2
<b>Means.</b>	<b>9.9</b>	<b>6.6</b>	<b>11.3</b>	<b>17.3</b>	<b>27.3</b>	<b>25.4</b>	<b>20.3</b>	<b>11.3</b>	<b>7.4</b>	<b>5.6</b>	<b>6.5</b>	<b>7.6</b>
<b>1901</b>												
1.....	7.9	5.0	14.3	8.5	12.7	37.5	25.5	17.9	9.8	4.2	1.9	3.2
2.....	7.4	4.8	15.5	8.3	13.6	37.1	24.9	17.7	9.7	4.0	1.8	3.3
3.....	7.0	4.6	16.6	7.9	14.6	36.8	24.3	17.2	9.5	4.4	2.0	3.5
4.....	6.5	4.4	17.1	7.8	16.0	36.7	23.7	16.8	9.5	4.3	2.3	4.1
5.....	6.2	3.8	16.6	7.9	17.8	36.8	23.0	16.7	9.4	4.2	2.5	4.4
6.....	6.1	3.7	15.3	7.6	18.6	36.6	22.9	16.5	9.1	3.8	2.5	4.5
7.....	6.0	3.6	14.3	7.6	19.5	36.0	22.9	16.2	8.9	3.6	2.4	4.5
8.....	6.1	3.5	13.6	7.8	20.0	35.1	22.8	16.0	8.8	3.5	2.3	4.7
9.....	5.8	3.4	12.5	7.8	20.8	34.1	22.7	15.8	8.7	3.5	2.3	4.9
10.....	5.2	3.0	12.0	7.7	20.4	33.5	22.7	15.4	8.6	3.3	2.8	4.5
11.....	5.2	2.7	11.7	7.7	22.1	32.7	22.6	15.0	8.5	3.2	2.7	4.2
12.....	5.1	2.3	11.5	7.9	23.2	31.7	22.5	14.7	8.4	3.0	2.5	4.0
13.....	8.4	2.3	11.1	8.0	23.5	31.2	22.5	14.2	8.1	2.9	2.4	4.0
14.....	9.4	2.5	10.6	8.4	24.5	29.9	22.8	13.8	7.9	2.8	2.3	3.8
15.....	9.4	2.7	10.3	9.2	26.1	29.2	21.9	13.6	7.5	2.7	2.1	3.5
16.....	9.2	6.1	9.9	9.7	27.4	28.5	21.9	13.4	6.9	2.5	2.4	2.6
17.....	9.1	7.5	9.7	10.3	28.9	27.9	21.8	13.0	6.6	2.5	2.5	2.3
18.....	9.0	8.5	9.3	10.3	30.5	27.3	21.5	13.0	6.5	2.5	2.4	2.3
19.....	8.6	10.0	9.1	10.3	32.1	27.0	21.0	12.8	6.2	2.4	2.2	2.0
20.....	8.2	9.6	9.1	10.4	32.9	26.8	20.7	12.4	6.1	2.3	2.4	1.9
21.....	7.3	8.7	9.2	10.5	33.1	26.8	20.5	12.0	5.8	2.2	2.4	1.9
22.....	7.0	8.4	9.3	10.8	32.2	27.2	19.9	11.7	5.5	2.0	2.6	1.9
23.....	6.6	8.0	9.1	11.4	31.3	27.2	19.8	11.8	5.1	1.9	3.6	2.5
24.....	6.3	8.1	9.1	11.9	30.9	27.2	19.7	11.8	5.0	1.9	3.1	2.5
25.....	6.4	9.4	9.5	12.3	30.1	27.1	19.6	11.4	4.9	1.9	2.9	2.4
26.....	6.4	9.8	9.6	12.7	29.8	26.8	19.3	11.2	4.9	1.8	3.5	2.5
27.....	6.1	11.7	9.5	13.0	30.9	26.3	19.0	10.8	4.8	1.9	3.6	5.0
28.....	5.9	12.8	9.4	13.1	32.4	25.9	18.4	10.4	4.8	1.8	3.7	5.6
29.....	5.6	.....	9.2	12.9	34.1	25.5	18.3	10.1	4.5	1.8	3.0	5.0
30.....	5.4	.....	9.1	12.8	35.7	25.1	18.4	10.0	4.2	1.9	3.0	3.6
31.....	5.2	.....	8.8	.....	36.8	.....	18.2	9.9	.....	1.8	.....	3.4
<b>Means.</b>	<b>6.9</b>	<b>6.1</b>	<b>11.4</b>	<b>9.8</b>	<b>25.9</b>	<b>30.6</b>	<b>21.5</b>	<b>13.7</b>	<b>7.1</b>	<b>2.8</b>	<b>2.6</b>	<b>3.5</b>

## DESCRIPTION OF RIVER GAGES, ETC.

## COLUMBIA RIVER SYSTEM—COLUMBIA RIVER, THE DALLES, OREG. —Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	3.2	0.6	7.9	3.2	10.7	<sup>a</sup> 36.7	26.2	20.0	10.2	3.8	1.7	3.4
2.....	3.2	0.2	7.6	3.2	11.0	36.3	26.0	19.7	10.0	3.7	1.8	3.1
3.....	3.0	-0.3	7.3	3.1	11.0	36.0	26.2	19.2	9.7	3.5	1.9	3.0
4.....	2.9	-0.8	6.6	3.2	10.9	35.4	26.5	18.7	9.2	3.4	1.8	3.0
5.....	2.8	1.0	6.2	3.5	10.9	34.7	27.0	18.3	8.8	3.4	1.7	3.1
6.....	3.2	2.2	5.9	3.9	11.1	34.0	27.6	17.5	8.6	3.3	1.6	3.5
7.....	3.5	2.2	5.7	5.0	11.4	33.3	29.1	17.1	8.4	3.2	1.7	3.4
8.....	4.1	1.9	5.5	5.6	11.8	32.9	29.0	16.8	7.8	3.2	2.2	3.1
9.....	4.3	1.8	5.4	6.3	12.6	32.8	28.8	16.3	7.5	3.1	2.0	3.0
10.....	4.4	1.8	5.5	7.3	14.0	32.7	28.3	15.7	7.3	3.0	2.5	3.0
11.....	4.5	2.1	5.5	8.0	16.0	33.3	27.9	15.4	6.9	2.7	3.0	3.1
12.....	4.5	3.0	5.4	8.5	17.6	34.5	27.8	15.2	6.5	2.7	3.5	3.5
13.....	4.4	3.9	5.2	8.5	19.3	34.8	27.2	14.7	6.4	2.7	3.5	3.9
14.....	4.3	6.5	5.2	8.0	20.5	34.3	26.8	14.3	6.5	2.6	3.4	3.7
15.....	3.8	6.2	5.5	7.6	21.4	33.6	26.5	14.0	6.4	2.6	3.3	3.4
16.....	3.7	6.5	5.2	7.4	22.0	32.9	25.9	13.8	6.1	2.5	3.2	3.2
17.....	3.6	6.8	5.0	7.4	24.5	32.0	25.4	13.6	5.9	2.5	3.5	3.0
18.....	3.4	6.7	4.9	7.5	25.7	31.3	25.0	13.4	5.7	2.4	3.6	2.6
19.....	3.3	6.7	4.7	8.2	27.0	30.7	24.5	13.2	5.7	2.2	3.4	2.1
20.....	3.2	6.7	4.6	9.1	27.3	29.8	24.2	13.1	5.6	2.2	3.2	1.9
21.....	3.1	7.8	4.5	10.3	27.1	28.7	24.0	12.9	5.5	2.1	3.1	1.7
22.....	3.1	6.9	4.5	11.4	27.4	28.6	23.6	12.7	5.2	2.0	3.0	1.4
23.....	2.8	6.4	4.6	11.8	28.5	28.3	23.2	12.4	5.0	2.0	2.9	1.2
24.....	2.5	5.9	4.8	11.9	28.8	27.9	22.9	12.1	4.9	1.9	3.0	1.2
25.....	2.0	5.9	4.8	11.8	29.1	27.8	22.3	11.9	4.7	1.9	2.8	1.4
26.....	1.8	5.9	4.6	11.7	29.8	27.8	22.0	11.6	4.6	1.8	2.5	1.6
27.....	1.4	5.6	4.5	11.2	30.5	27.7	21.7	11.3	4.5	1.9	2.6	2.2
28.....	1.2	6.4	4.3	11.0	31.3	27.3	21.4	11.0	4.4	1.9	2.7	2.0
29.....	1.2	-----	4.0	10.7	32.8	26.9	21.2	10.8	4.3	1.8	2.8	2.5
30.....	1.1	-----	3.7	10.7	35.0	26.5	20.9	10.7	4.2	1.8	3.1	3.0
31.....	1.0	-----	3.4	-----	36.3	-----	20.5	10.6	-----	1.7	-----	3.3
Means.	3.0	4.2	5.2	7.9	21.7	31.6	25.2	14.5	6.6	2.6	2.7	2.7
<b>1903</b>												
1.....	3.7	6.6	1.9	13.2	16.0	24.0	36.6	18.2	10.3	7.9	7.4	7.3
2.....	3.5	6.5	1.9	14.0	15.5	25.9	35.9	17.9	10.0	8.0	7.3	7.2
3.....	4.5	6.3	1.8	14.2	15.2	28.8	34.8	17.4	9.7	8.5	7.2	7.2
4.....	5.5	6.4	1.8	13.7	15.2	32.4	33.6	17.0	9.6	8.9	7.0	7.1
5.....	5.5	4.3	1.7	13.2	15.2	35.1	32.8	16.5	10.0	9.2	6.9	7.2
6.....	6.4	3.7	1.6	12.4	15.9	36.2	32.0	16.1	9.9	9.5	7.5	7.3
7.....	7.4	3.3	1.7	11.7	16.6	36.6	31.1	15.8	9.7	9.9	7.6	7.4
8.....	7.8	3.2	1.8	11.2	17.7	37.1	30.2	15.5	9.5	9.9	7.4	7.1
9.....	7.3	3.0	1.7	10.6	18.6	37.8	29.6	15.1	9.1	10.0	7.4	6.6
10.....	6.6	3.7	1.6	10.3	18.9	39.1	29.4	14.7	9.3	10.2	7.6	6.5
11.....	5.8	3.5	2.1	10.2	18.7	40.5	28.9	14.3	9.2	10.4	8.0	6.5
12.....	5.3	3.3	1.9	10.1	18.7	41.3	28.0	13.9	9.1	10.2	7.7	6.4
13.....	4.7	3.0	1.5	10.1	18.4	41.7	27.2	13.7	9.0	10.0	7.6	6.4
14.....	4.2	2.8	1.9	10.0	18.4	42.4	26.4	13.2	9.0	10.1	7.4	6.2
15.....	4.1	2.5	2.6	9.8	19.3	42.7	25.5	13.0	8.8	9.9	7.4	6.1
16.....	3.8	2.0	3.6	9.5	21.3	42.9	24.9	12.6	8.6	9.7	7.3	6.4
17.....	3.5	1.9	4.7	9.5	22.5	42.9	24.2	12.3	8.4	9.6	7.1	6.3
18.....	3.1	1.6	5.2	9.4	23.1	<sup>b</sup> 43.0	23.9	12.3	8.2	9.6	7.0	6.4
19.....	3.0	1.6	5.2	9.4	22.9	43.0	23.3	12.2	8.1	9.4	6.9	6.5
20.....	2.8	1.4	5.1	9.6	22.3	42.6	22.7	12.1	7.9	9.0	6.7	6.4
21.....	3.2	1.4	4.8	10.0	21.9	41.9	22.4	11.8	7.4	8.7	6.6	6.3
22.....	3.5	1.4	4.2	10.3	21.5	41.4	21.9	11.7	7.2	8.6	6.5	6.2
23.....	3.5	1.5	3.9	10.8	21.2	41.0	21.3	11.6	7.0	8.5	6.4	6.1
24.....	4.3	1.6	3.9	11.3	20.9	40.4	21.0	11.3	7.0	8.4	7.2	6.0
25.....	8.6	1.6	4.3	12.2	20.5	40.0	20.2	11.2	7.0	8.1	7.9	5.9
26.....	8.5	1.6	4.5	13.0	20.3	39.2	19.9	11.1	7.0	7.8	7.8	5.9
27.....	10.0	1.7	5.1	13.9	20.4	38.5	19.5	10.9	7.0	7.8	7.6	5.4
28.....	10.8	1.6	6.4	14.9	20.6	37.7	19.2	10.8	7.3	7.9	7.5	5.0
29.....	9.8	-----	8.9	15.5	21.7	37.2	19.0	10.8	7.7	7.7	7.3	4.6
30.....	8.6	-----	9.4	16.0	22.7	36.7	19.0	10.8	7.6	7.4	7.2	4.4
31.....	7.6	-----	11.8	-----	23.4	-----	18.5	10.5	-----	7.4	-----	4.6
Means.	5.7	2.9	3.8	11.7	19.5	38.3	25.9	13.4	8.5	9.0	7.3	6.3

<sup>a</sup> 36.8 at 1 p. m.<sup>b</sup> Maximum stage 43.1.



## COLUMBIA RIVER SYSTEM—COLUMBIA RIVER, THE DALLES, OREG.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	4.5	3.1	8.6	9.7	29.5	33.9	28.3	16.1	8.1	3.9	1.5	1.7
2.....	4.4	3.0	7.5	10.7	29.6	34.3	28.1	15.9	8.0	3.9	1.5	2.0
3.....	4.3	3.0	6.6	11.3	29.2	34.5	28.0	15.7	7.7	3.8	1.4	1.6
4.....	4.2	2.9	6.3	11.1	28.8	34.8	28.3	15.3	7.6	3.5	1.2	1.3
5.....	4.1	2.8	6.0	11.9	28.6	34.8	28.1	14.9	7.5	3.1	1.1	1.2
6.....	4.1	2.7	6.1	12.1	28.6	34.1	28.0	14.7	7.3	3.0	1.1	1.1
7.....	4.0	2.6	7.7	12.3	28.6	33.9	27.8	14.5	7.1	3.0	1.1	1.0
8.....	3.8	2.5	8.0	13.2	28.5	34.1	27.9	14.3	7.1	2.8	1.0	0.8
9.....	3.8	2.4	9.6	13.1	28.2	34.8	27.6	14.1	7.1	2.8	0.9	0.7
10.....	4.0	2.3	12.9	13.3	27.9	34.6	27.9	13.8	6.9	2.7	0.8	0.6
11.....	4.3	2.2	15.7	14.0	27.2	34.3	27.7	13.7	6.8	3.0	0.8	0.5
12.....	4.4	2.2	15.4	15.4	27.2	33.8	27.8	13.3	6.6	3.2	0.7	0.4
13.....	4.5	2.3	14.5	17.9	27.7	33.1	27.8	13.0	6.5	2.9	0.7	1.3
14.....	4.6	2.4	13.3	20.0	27.8	32.6	27.0	12.9	6.5	2.9	0.8	1.5
15.....	4.7	2.4	12.1	22.6	28.2	32.3	26.7	12.8	6.6	3.0	0.8	2.0
16.....	4.7	2.6	11.0	24.8	28.3	31.8	26.3	12.5	6.6	3.0	0.8	1.6
17.....	4.9	2.8	10.5	27.3	28.6	31.8	25.9	12.2	6.5	2.9	0.9	1.4
18.....	5.1	3.5	10.4	28.1	28.8	32.4	25.6	11.9	6.5	2.8	0.9	1.4
19.....	5.0	3.9	10.1	28.9	29.2	33.1	24.8	11.7	6.4	2.6	0.8	1.4
20.....	5.0	4.5	10.5	28.3	29.6	33.3	23.9	11.4	6.1	2.6	1.4	1.2
21.....	4.9	5.3	10.5	28.0	30.0	33.4	23.2	10.9	5.9	2.5	2.0	1.1
22.....	4.9	5.4	10.6	28.2	30.4	33.1	22.8	10.7	5.6	2.4	1.8	1.0
23.....	4.7	5.4	11.1	28.1	32.0	32.8	21.8	10.6	5.4	2.2	1.6	1.1
24.....	4.3	6.3	10.3	28.1	34.2	32.2	20.9	10.2	5.3	2.1	1.7	1.2
25.....	4.1	6.3	10.2	27.5	35.1	31.6	20.0	10.3	5.0	2.0	1.8	1.1
26.....	3.8	7.6	9.3	26.5	36.0	31.0	19.6	9.8	5.0	1.9	1.7	1.0
27.....	3.6	9.4	8.4	25.8	35.6	30.1	18.8	9.7	5.0	1.8	1.8	0.6
28.....	3.4	9.8	8.0	25.8	34.8	29.3	18.2	9.4	4.7	1.8	1.8	0.5
29.....	3.2	9.3	7.8	27.3	34.0	28.6	17.5	9.1	4.4	1.8	1.6	0.7
30.....	3.3	-----	9.2	28.6	33.5	28.3	17.0	8.8	4.1	1.7	1.6	1.2
31.....	3.3	-----	9.4	-----	33.5	-----	16.6	8.4	-----	1.6	-----	1.1
Means.	4.3	4.2	9.9	20.7	30.4	32.8	24.5	12.3	6.3	2.7	1.3	1.1

## COLUMBIA RIVER SYSTEM—COLUMBIA RIVER, CASCADE LOCKS, OREG.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	6.1	5.5	5.6	10.1	14.0	20.2	20.4	11.4	7.1	4.5	5.9	4.3
2.....	6.0	5.4	5.3	10.1	14.2	19.6	20.4	11.4	7.0	4.5	6.4	4.1
3.....	6.1	5.3	5.2	10.1	14.6	19.3	20.4	11.4	7.0	4.5	6.4	4.1
4.....	6.2	5.0	5.3	10.3	15.1	19.2	19.8	11.3	6.9	4.4	6.0	4.2
5.....	6.1	4.8	5.3	11.0	16.0	19.3	19.5	11.2	6.7	4.3	5.8	4.3
6.....	6.0	4.8	5.3	11.8	17.3	19.3	19.2	10.7	6.5	4.2	5.8	4.4
7.....	6.1	4.9	5.9	12.5	18.2	19.5	18.8	10.6	6.3	4.2	5.8	4.9
8.....	6.3	4.9	6.8	12.5	19.2	19.6	18.5	10.4	6.2	4.2	5.8	5.4
9.....	6.3	4.8	6.6	13.0	19.8	19.5	17.8	10.3	6.1	4.0	5.6	6.0
10.....	6.3	4.5	7.0	13.7	20.2	19.4	17.2	9.9	6.0	3.8	5.5	6.0
11.....	6.3	4.7	7.7	13.6	20.8	19.3	16.9	9.6	5.8	3.8	5.2	5.9
12.....	6.8	4.4	8.2	13.8	21.6	19.1	16.3	9.3	5.6	3.7	5.0	5.9
13.....	8.1	4.4	8.3	13.5	22.7	18.8	15.9	8.9	5.5	3.5	5.0	5.5
14.....	8.3	4.5	8.6	13.3	23.9	18.6	15.4	8.7	5.4	3.3	4.8	5.3
15.....	11.3	4.5	9.2	13.2	24.2	18.4	15.0	8.5	5.3	3.2	4.6	5.0
16.....	12.3	4.2	9.7	13.7	24.0	18.2	14.6	8.3	5.2	3.1	4.5	5.1
17.....	11.4	3.7	9.8	13.8	23.8	18.1	14.3	8.1	5.1	3.0	4.5	5.3
18.....	10.9	3.5	10.0	13.8	24.2	18.2	14.3	7.7	5.1	3.0	4.5	5.4
19.....	10.2	3.1	9.9	13.7	25.0	18.8	13.9	7.4	5.0	3.0	4.5	5.4
20.....	9.4	3.0	10.0	13.8	24.6	18.8	13.5	7.2	4.9	3.2	4.4	5.7
21.....	9.1	3.5	10.0	14.0	23.8	18.6	13.4	7.0	4.9	3.3	4.4	6.9
22.....	8.9	4.4	10.0	14.3	23.5	18.6	13.2	7.0	4.9	3.4	4.4	7.0
23.....	8.7	4.6	10.1	14.5	23.2	18.5	12.8	7.0	4.7	3.8	4.3	7.2
24.....	8.4	5.0	10.3	14.5	23.0	18.8	12.5	7.0	4.8	4.2	4.1	8.2
25.....	7.8	6.0	10.4	14.5	22.7	19.1	12.2	7.0	4.8	4.6	4.2	8.7
26.....	7.4	6.1	10.6	14.5	22.4	19.5	12.1	7.0	4.5	5.3	4.2	8.3
27.....	7.0	6.0	10.7	14.3	21.8	20.0	11.8	6.9	4.5	5.5	4.1	7.7
28.....	6.5	5.8	10.8	14.3	21.5	20.1	11.7	7.0	4.5	5.4	3.8	7.0
29.....	6.3	-----	11.0	14.1	21.2	20.5	11.6	7.0	4.5	5.4	3.8	6.9
30.....	6.0	-----	10.8	14.0	21.0	20.3	11.5	7.1	4.5	5.4	4.0	6.8
31.....	5.7	-----	10.5	-----	20.6	-----	11.4	7.1	-----	5.8	-----	6.4
Means.	7.7	4.7	8.5	13.2	20.9	19.2	15.4	8.7	5.5	4.1	4.9	5.9

## COLUMBIA RIVER SYSTEM—COLUMBIA RIVER, CASCADE LOCKS, OREG.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	6.1	3.7	11.6	6.4	9.7	29.7	18.6	13.6	7.2	3.2	1.2	2.4
2.....	5.6	3.5	12.1	6.1	9.9	29.6	18.2	13.5	7.1	2.9	1.2	2.5
3.....	5.1	3.2	12.7	6.1	10.8	29.1	18.1	13.3	7.2	2.9	1.3	2.5
4.....	5.0	3.0	13.6	6.0	12.0	29.0	17.8	12.9	7.2	2.9	1.5	2.9
5.....	4.5	2.8	13.2	6.1	13.7	29.2	17.5	12.8	7.2	2.8	1.5	3.4
6.....	4.2	2.8	12.1	6.1	14.5	29.0	17.2	12.5	7.1	2.6	1.7	3.3
7.....	3.9	2.8	11.1	6.1	14.8	28.6	16.9	12.3	7.0	2.6	1.7	3.1
8.....	3.6	2.7	10.2	6.0	15.6	27.8	16.8	12.0	6.9	2.5	1.7	3.7
9.....	3.6	2.4	9.8	6.0	16.1	26.9	17.0	11.8	6.7	2.4	1.8	3.8
10.....	4.1	2.1	9.2	6.0	16.9	26.0	17.1	11.6	6.7	2.1	1.8	3.8
11.....	4.0	1.8	9.0	5.9	17.1	25.0	17.0	11.5	6.7	2.1	2.0	3.5
12.....	4.0	1.5	8.9	5.8	17.9	24.2	16.9	11.2	6.4	2.1	1.8	3.2
13.....	7.2	1.4	8.7	5.8	18.1	23.2	16.8	11.0	6.3	2.0	1.7	2.7
14.....	7.8	1.6	8.5	6.6	18.9	22.6	16.7	10.8	5.9	1.9	1.6	2.7
15.....	7.6	2.0	8.1	7.0	20.0	22.4	16.5	10.5	5.7	1.8	1.6	2.4
16.....	7.3	5.4	7.6	7.4	21.2	21.7	16.1	10.3	5.3	1.8	1.7	2.2
17.....	7.3	6.0	7.2	7.5	22.3	21.0	16.0	10.1	5.0	1.5	1.8	1.7
18.....	7.2	6.2	7.2	7.6	23.6	20.8	16.0	9.6	4.7	1.5	1.8	1.7
19.....	6.9	8.0	7.0	7.8	25.0	20.4	15.9	9.4	4.2	1.5	1.8	1.7
20.....	6.5	7.5	7.0	7.8	25.9	20.3	15.7	9.3	4.2	1.4	1.7	1.2
21.....	5.7	7.1	7.0	7.8	25.8	20.2	15.3	9.2	4.1	1.4	1.8	1.2
22.....	5.4	6.6	6.9	8.2	25.0	20.7	15.1	9.2	3.8	1.4	2.5	1.3
23.....	5.0	6.3	6.9	8.6	24.4	20.7	14.7	8.9	3.7	1.4	3.0	1.4
24.....	4.7	6.2	6.9	9.0	23.9	20.5	14.3	8.8	3.7	1.4	2.5	1.5
25.....	4.7	7.4	7.0	9.3	23.2	20.5	14.2	8.7	3.7	1.3	2.3	1.7
26.....	4.6	8.1	7.2	9.6	23.2	20.2	14.2	8.5	3.6	1.2	2.3	2.2
27.....	4.5	9.5	7.3	9.8	23.6	20.0	14.2	8.5	3.5	1.1	2.5	4.0
28.....	4.4	10.1	7.2	10.1	25.0	19.6	14.1	8.2	3.2	1.1	2.4	3.5
29.....	4.1	.....	7.0	10.2	26.8	19.3	13.8	8.0	3.2	1.1	2.3	3.2
30.....	3.9	.....	6.9	9.8	28.2	19.0	13.8	7.8	3.2	1.1	2.3	3.0
31.....	3.9	.....	6.5	.....	29.2	.....	13.7	7.4	.....	1.1	.....	2.7
<b>Means.</b>	<b>5.2</b>	<b>4.7</b>	<b>8.8</b>	<b>7.4</b>	<b>20.1</b>	<b>23.6</b>	<b>16.0</b>	<b>10.4</b>	<b>5.3</b>	<b>1.9</b>	<b>1.9</b>	<b>2.6</b>
<b>1902</b>												
1.....	2.4	-0.9	6.1	2.4	8.4	29.1	19.7	14.9	7.9	2.8	1.2	2.8
2.....	2.1	-1.0	5.8	2.2	8.4	28.7	19.7	14.6	7.8	2.7	1.2	2.6
3.....	2.0	-1.0	5.6	2.1	8.4	28.6	19.8	14.5	7.5	2.6	1.5	2.3
4.....	2.1	-0.8	5.3	2.1	8.4	27.9	19.9	14.3	7.2	2.5	1.3	2.5
5.....	2.0	-0.2	4.9	2.6	8.4	27.6	20.1	13.8	7.0	2.4	1.3	2.9
6.....	2.4	0.5	4.6	2.8	8.6	26.8	20.5	13.5	6.7	2.3	1.3	2.7
7.....	2.8	0.8	4.4	3.6	9.0	26.0	21.1	13.1	6.4	2.1	1.5	2.6
8.....	3.4	0.9	4.4	4.2	9.2	25.4	22.0	12.8	6.3	2.0	2.0	2.5
9.....	3.3	1.1	4.0	4.8	9.9	25.4	22.0	12.5	5.9	2.0	2.0	2.5
10.....	3.2	1.3	4.0	5.7	10.8	25.4	21.4	12.1	5.7	1.9	1.8	2.5
11.....	3.3	1.6	4.0	6.1	12.2	25.8	21.1	11.8	5.4	1.9	2.2	2.5
12.....	3.4	2.0	4.0	6.4	13.8	26.9	20.9	11.4	5.0	1.9	2.6	2.4
13.....	3.4	2.8	4.0	6.5	15.0	27.4	20.7	11.1	4.8	1.8	2.7	2.7
14.....	3.3	4.6	3.8	6.2	15.9	27.0	20.4	10.9	4.7	1.8	2.7	2.7
15.....	3.2	5.0	4.0	6.0	16.8	26.0	20.1	10.4	4.6	1.8	2.6	2.7
16.....	3.0	5.3	4.1	5.7	18.0	25.2	19.5	10.2	4.3	1.7	2.6	2.7
17.....	2.9	4.8	3.8	5.8	19.1	24.9	19.0	10.1	4.2	1.6	2.7	2.4
18.....	2.9	5.4	3.8	5.9	20.0	24.2	18.7	10.0	4.1	1.6	2.9	2.0
19.....	2.3	5.6	3.4	6.5	21.2	23.6	18.6	9.9	4.1	1.6	2.6	1.7
20.....	2.2	6.1	3.3	7.1	21.3	22.6	18.2	9.8	4.1	1.5	2.5	1.4
21.....	2.2	6.1	3.2	8.1	21.1	22.6	17.8	9.8	4.0	1.5	2.4	1.1
22.....	2.2	5.8	3.2	9.0	21.2	22.0	17.6	9.7	3.8	1.5	2.2	0.8
23.....	2.2	5.2	3.3	9.2	22.1	21.7	17.3	9.3	3.7	1.5	2.0	0.8
24.....	2.0	4.7	3.3	9.2	22.5	21.6	17.1	9.0	3.6	1.5	2.0	0.8
25.....	1.8	4.3	3.2	9.1	22.7	21.3	16.8	8.9	3.4	1.4	2.0	1.0
26.....	1.6	4.5	3.1	8.9	23.0	21.0	16.5	8.7	3.3	1.4	1.9	1.2
27.....	1.0	4.7	3.0	8.8	23.5	21.1	16.5	8.5	3.2	1.4	1.6	1.5
28.....	0.2	5.5	3.0	8.6	24.3	20.5	16.3	8.3	3.0	1.4	1.7	1.7
29.....	-0.4	.....	3.0	8.3	25.5	20.2	16.0	8.2	2.9	1.3	1.7	1.8
30.....	-0.7	.....	2.8	8.3	27.5	19.9	15.8	8.1	2.9	1.3	1.8	2.1
31.....	-0.8	.....	2.7	.....	29.1	.....	15.3	8.0	.....	1.2	.....	2.8
<b>Means.</b>	<b>2.2</b>	<b>3.0</b>	<b>3.9</b>	<b>6.1</b>	<b>16.9</b>	<b>24.5</b>	<b>18.9</b>	<b>10.9</b>	<b>4.9</b>	<b>1.8</b>	<b>2.0</b>	<b>2.1</b>

## COLUMBIA RIVER SYSTEM—COLUMBIA RIVER, CASCADE LOCKS, OREG.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>190</b>												
1.....	3.1	4.9	1.3	10.2	12.3	18.4	28.1	13.4	7.8	5.2	5.5	5.5
2.....	3.2	4.5	1.4	10.8	12.3	20.0	27.5	13.3	7.6	5.4	5.5	5.5
3.....	4.2	4.2	1.4	11.0	12.0	23.0	26.7	12.8	7.5	5.5	5.4	5.7
4.....	5.1	3.9	1.3	10.7	11.9	25.8	25.6	12.7	7.4	5.8	5.3	6.1
5.....	4.5	3.5	1.2	10.2	12.0	28.2	25.0	12.5	7.2	6.1	5.5	6.5
6.....	5.3	3.0	1.1	9.7	12.0	29.0	24.2	12.2	7.1	6.4	6.1	6.1
7.....	6.0	2.5	1.1	9.0	13.0	29.2	23.4	11.9	7.0	6.8	6.0	5.7
8.....	6.0	2.1	1.1	8.7	13.5	29.4	22.7	11.6	6.9	6.8	5.3	5.3
9.....	5.8	2.3	1.1	8.4	14.2	30.4	22.3	11.3	6.8	7.5	5.5	5.0
10.....	5.4	2.5	1.1	8.0	14.8	31.5	22.3	11.2	6.7	7.9	5.8	5.0
11.....	4.8	2.9	1.3	7.9	14.8	32.5	22.0	11.0	6.7	7.9	6.0	5.0
12.....	4.2	2.8	1.5	8.0	14.6	33.2	21.7	10.7	6.5	8.0	6.2	5.0
13.....	3.9	2.6	1.3	7.8	14.2	33.7	21.2	10.4	6.5	8.0	6.0	4.7
14.....	3.5	2.3	1.3	7.7	14.2	34.2	20.6	10.0	6.5	7.9	5.7	4.5
15.....	3.2	1.9	2.0	7.7	14.8	34.4	20.0	9.9	6.5	7.7	5.3	4.5
16.....	3.0	1.6	2.6	7.6	16.0	34.5	19.0	9.8	6.5	7.4	5.5	4.5
17.....	2.9	1.4	3.3	7.3	17.0	34.5	18.1	9.4	6.5	7.3	5.5	5.0
18.....	2.6	1.2	4.0	7.2	17.5	34.8	17.6	9.2	6.3	7.3	5.3	4.8
19.....	2.4	1.1	4.1	7.2	17.3	34.5	17.1	9.1	6.1	7.3	5.0	4.6
20.....	2.3	1.0	3.9	7.5	17.1	34.3	17.0	9.0	6.0	7.0	5.0	4.6
21.....	2.4	1.0	3.7	7.7	16.4	33.5	16.6	8.8	5.7	6.8	5.0	5.2
22.....	2.5	0.9	3.3	8.1	16.2	33.0	16.0	8.6	5.4	6.5	5.2	5.1
23.....	2.5	0.9	3.1	8.5	16.1	32.8	15.7	8.5	5.2	6.3	5.4	5.0
24.....	4.2	0.9	3.0	9.0	15.9	32.6	15.4	8.4	5.1	6.1	5.6	5.0
25.....	7.3	1.0	3.2	9.3	15.7	31.9	15.1	8.2	5.0	6.0	5.9	4.5
26.....	7.0	1.2	3.6	9.7	15.6	31.0	14.7	8.0	5.0	5.9	6.2	4.3
27.....	8.0	1.3	4.1	10.2	15.3	30.3	14.4	8.0	5.0	5.9	6.1	4.0
28.....	8.6	1.3	5.1	11.5	15.6	29.6	14.3	8.0	5.0	5.8	5.9	3.7
29.....	7.9	.....	6.1	12.3	16.4	29.2	14.1	8.0	5.0	5.7	5.7	3.7
30.....	7.3	.....	7.4	12.3	17.2	28.8	13.9	7.9	5.0	5.6	5.5	3.4
31.....	6.3	.....	9.2	.....	17.6	.....	13.7	7.8	.....	5.5	.....	3.0
<b>Means.</b>	<b>4.7</b>	<b>2.2</b>	<b>2.9</b>	<b>9.0</b>	<b>15.0</b>	<b>30.6</b>	<b>19.5</b>	<b>10.1</b>	<b>6.2</b>	<b>6.6</b>	<b>5.6</b>	<b>4.9</b>
<b>1904</b>												
1.....	3.0	2.5	6.5	7.5	23.3	26.7	21.5	12.4	6.3	3.0	0.8	1.2
2.....	2.8	2.5	5.5	8.2	23.3	26.8	21.2	12.3	6.1	2.9	0.7	1.1
3.....	2.7	2.2	5.0	8.6	23.0	27.2	21.2	12.0	5.9	2.8	0.7	1.1
4.....	2.8	1.9	4.9	8.8	22.4	27.0	21.2	11.8	5.7	2.6	0.5	1.0
5.....	2.8	1.9	4.9	8.8	22.8	26.7	21.5	11.5	5.5	2.5	0.4	0.8
6.....	3.0	1.9	4.9	9.6	22.8	26.5	21.0	11.3	5.3	2.3	0.4	0.6
7.....	3.0	1.8	5.5	9.7	22.7	26.4	20.8	11.0	5.2	2.1	0.3	0.4
8.....	3.0	1.7	6.8	10.5	22.6	26.5	21.0	10.8	5.1	2.0	0.3	0.3
9.....	3.2	1.6	7.5	10.5	22.1	27.0	21.0	10.5	5.0	2.0	0.2	0.2
10.....	3.5	1.5	10.0	10.5	21.5	27.0	21.0	10.3	5.0	2.0	0.1	0.2
11.....	4.0	1.3	13.0	11.0	21.0	26.6	21.0	10.2	5.0	2.0	0.1	0.1
12.....	3.9	1.2	13.0	12.0	21.3	26.4	20.7	10.1	4.8	2.0	0.1	0.1
13.....	3.7	1.2	11.2	14.4	21.3	26.1	20.7	10.0	4.6	1.9	0.1	0.1
14.....	3.5	1.2	10.5	16.4	21.4	25.2	20.2	9.8	4.5	1.9	0.1	0.3
15.....	3.7	1.2	9.5	18.5	21.2	25.0	20.2	9.7	4.5	1.9	0.1	1.5
16.....	3.7	1.3	9.0	20.0	21.4	24.5	19.8	9.6	4.5	1.9	0.1	1.0
17.....	3.7	1.7	8.5	22.5	21.8	24.7	19.3	9.4	4.4	1.8	0.1	0.9
18.....	3.7	2.5	8.2	23.0	22.0	25.0	19.0	9.2	4.4	1.8	0.2	0.8
19.....	3.7	3.3	8.0	23.0	22.2	26.0	18.7	9.0	4.4	1.8	0.5	0.7
20.....	3.7	4.0	8.0	22.5	23.0	26.0	18.2	8.8	4.3	1.7	1.6	0.6
21.....	3.6	4.2	8.2	22.5	23.5	25.8	17.4	8.6	4.3	1.7	1.6	0.5
22.....	3.5	4.5	8.4	22.5	24.2	25.8	16.7	8.4	4.2	1.6	1.6	0.4
23.....	3.3	4.8	8.4	23.0	25.2	25.5	16.3	8.2	4.0	1.5	1.0	0.4
24.....	3.0	4.8	8.2	23.0	27.0	25.0	15.8	8.0	3.9	1.3	1.0	0.4
25.....	3.0	4.9	8.0	22.0	28.4	24.3	15.3	7.8	3.7	1.2	1.0	0.3
26.....	3.0	5.2	7.5	21.0	29.0	23.8	14.5	7.6	3.6	1.1	1.1	0.3
27.....	3.0	6.5	6.7	20.0	28.5	23.0	14.3	7.4	3.5	1.0	1.1	0.2
28.....	2.9	7.5	5.8	20.0	28.0	22.2	14.0	7.1	3.4	1.0	1.2	0.2
29.....	2.8	7.0	5.8	21.5	27.4	21.5	13.5	6.8	3.2	0.9	1.2	0.6
30.....	2.7	.....	5.8	23.0	26.4	21.3	13.0	6.6	3.1	0.8	1.2	1.4
31.....	2.5	.....	7.0	.....	26.5	.....	12.5	6.5	.....	0.8	.....	1.0
<b>Means.</b>	<b>3.2</b>	<b>3.0</b>	<b>7.7</b>	<b>16.5</b>	<b>23.8</b>	<b>25.4</b>	<b>18.5</b>	<b>9.4</b>	<b>4.6</b>	<b>1.8</b>	<b>0.6</b>	<b>0.6</b>

## DESCRIPTION OF RIVER GAGES, ETC.

## COLUMBIA RIVER SYSTEM—COLUMBIA RIVER, VANCOUVER, WASH.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....				3.2		21.6	15.6	11.8	5.8	2.2	2.0	6.4
2.....				3.0		21.6	15.6	11.4	5.6	2.2	2.0	6.8
3.....				3.4		21.6	15.4	11.2	5.6	2.2	2.0	6.8
4.....				4.0		21.6	15.8	11.0	5.4	2.2	1.8	8.0
5.....				4.0		21.5	16.0	10.8	5.2	2.0	1.8	8.2
6.....				4.0		21.4	16.4	10.6	5.0	2.0	2.0	8.2
7.....				4.2		20.8	17.0	10.2	4.8	2.0	2.0	8.2
8.....				4.2		20.6	17.6	10.0	4.6	1.8	2.0	8.2
9.....				4.6	8.4	20.0	17.4	9.6	4.2	1.8	1.8	8.8
10.....				4.8	8.8	19.8	17.2	9.2	4.2	2.0	2.6	8.6
11.....				5.0	9.6	19.8	17.0	9.0	4.0	2.2	3.0	8.4
12.....				5.0	10.4	20.0	16.8	8.8	4.0	2.0	3.4	8.0
13.....				5.0	11.0	20.2	16.6	8.4	3.8	2.0	4.0	7.8
14.....				5.2	11.8	20.4	16.2	8.0	3.6	2.0	4.2	7.0
15.....				5.2	12.4	20.2	15.8	7.8	3.6	2.0	4.4	6.8
16.....				6.0	13.2	19.8	15.4	7.6	3.4	2.0	4.8	6.6
17.....				6.0	14.0	19.4	15.2	7.4	3.2	2.0	5.2	5.4
18.....				6.4	15.2	19.0	15.0	7.4	3.0	2.0	7.4	4.8
19.....				6.6	15.8	18.8	14.8	7.2	3.0	1.8	7.8	4.2
20.....				7.0	16.6	18.4	14.6	7.2	3.0	1.8	7.2	4.0
21.....				7.4		18.2	14.4	7.2	2.8	1.6	6.8	3.6
22.....				8.0	17.0	17.8	14.2	7.0	2.8	1.6	6.4	3.8
23.....				8.0	17.2	17.0	14.0	7.0	2.8	1.6	5.0	3.0
24.....				7.4	17.6	16.8	13.6	6.8	2.8	1.6	3.4	4.0
25.....				7.0	17.8	16.6	13.4	6.6	2.6	1.6	3.0	4.8
26.....				7.6		16.4	13.0	6.4	2.6	1.8	2.8	6.0
27.....				7.2	18.2	16.2		6.0	2.6	1.8	3.0	6.2
28.....				7.0	18.6	16.0	12.8	5.8	2.4	1.8	3.2	5.8
29.....				7.0	19.0	15.8	12.4	5.8	2.4	2.0	3.4	5.4
30.....				6.8	20.0	15.6	12.0	5.6	2.4	2.0	3.8	5.0
31.....								5.6		2.0		5.6
<b>Means.</b>				5.7	13.9	19.1	15.2	8.2	3.7	1.9	3.7	6.3
<b>1903</b>												
1.....	6.4	9.0	2.4	8.2	9.8	18.8	21.0	10.4	5.8	3.8	5.2	5.6
2.....	7.0	7.6	2.6	8.4	9.8	19.0	20.6	10.2	5.6	4.2	5.6	5.8
3.....	8.8	6.4	2.6	8.6	9.8	19.4	20.0	10.0	5.6	4.6	5.8	6.7
4.....	10.6	5.8	2.4	8.6	10.0	19.8	19.6	9.8	5.6	5.0	6.2	6.4
5.....	10.0	5.0	2.4	8.2	10.2	20.0	19.2	9.6	5.4	5.2	6.6	6.8
6.....	9.8	4.4	2.4	7.6	10.4	20.6	18.8	9.2	5.4	5.8	7.0	6.4
7.....	8.0	4.4	2.2	7.4	10.4	21.0	18.4	9.0	5.4	6.4	7.2	6.0
8.....	7.8	4.8	2.6	7.4	10.6	21.2	18.0	8.8	5.2	6.6	7.2	5.8
9.....	7.0	5.2	2.6	7.4	10.8	21.6	17.8	8.6	5.2	7.0	7.0	6.2
10.....	6.4	6.0	2.8	7.2	10.8	22.0	17.6	8.4	5.2	7.2	6.8	6.4
11.....	6.0	5.8	3.6	7.2	11.0	22.4	17.2	8.2	5.0	6.8	7.0	6.8
12.....	5.0	5.8	4.0	7.0	11.4	22.6	17.0	9.0	5.0	6.6	7.0	6.6
13.....	4.8	5.6	4.4	6.8	11.4	23.0	16.8	7.8	5.0	6.6	6.8	6.2
14.....	4.6	5.0	4.4	6.6	11.6	23.8	16.4	7.8	4.8	6.8	6.8	6.0
15.....	4.6	4.4	4.2	6.6	11.6	24.2	16.0	7.6	4.8	6.8	6.6	5.6
16.....	4.4	3.4	4.2	6.6	12.0	24.8	15.8	7.4	4.8	6.6	6.8	5.4
17.....	4.2	3.0	4.4	6.4	12.8	24.8	15.4	7.2	4.6	6.4	6.8	5.8
18.....	4.0	3.0	4.6	6.0	13.0	24.6	15.2	7.0	4.6	6.0	6.6	6.2
19.....	4.4	3.0	4.6	5.8	13.6	24.2	14.8	7.0	4.6	6.0	6.6	6.6
20.....	4.4	2.6	4.4	5.8	13.8	24.0	14.4	7.0	4.6	5.8	6.4	6.8
21.....	4.2	2.4	4.4	5.6	13.8	23.8	14.2	6.8	4.4	5.6	6.4	6.8
22.....	4.8	2.4	4.0	5.8	13.6	23.4	13.8	6.8	4.4	5.6	6.6	7.0
23.....	5.4	2.2	3.8	6.0	13.6	23.2	13.6	6.6	4.2	5.4	6.6	6.8
24.....	7.0	2.2	3.8	6.6	13.0	23.0	13.2	6.6	4.2	5.2	7.0	6.4
25.....	10.8	2.2	3.6	7.0	12.8	22.8	12.8	6.4	4.0	5.0	7.0	5.8
26.....	11.0	2.0	3.6	7.8	12.2	22.6	12.6	6.4	4.0	4.6	6.8	5.4
27.....	12.6	2.0	3.4	8.0	12.2	22.2	12.2	6.2	3.8	4.4	6.8	4.0
28.....	13.0	2.0	3.8	8.8	12.4	22.0	11.8	6.2	3.8	4.6	6.6	4.2
29.....	13.6		4.8	9.2	12.8	21.6	11.6	6.0	3.6	4.6	6.2	4.6
30.....	12.0		6.8	9.6	13.2	21.4	11.2	6.0	3.6	4.8	5.8	4.0
31.....	10.4		7.4		13.8		10.8	5.8		5.0		3.4
<b>Means.</b>	7.5	4.2	3.8	7.3	11.9	22.3	15.7	7.7	4.7	5.6	6.6	5.9

## COLUMBIA RIVER SYSTEM—COLUMBIA RIVER, VANCOUVER, WASH.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	3.4	3.2	10.0	8.2	18.2	20.9	17.1	9.4	.....	.....	.....	2.7
2.....	3.6	3.4	9.6	8.0	18.4	20.9	17.0	9.1	.....	.....	.....	2.5
3.....	3.2	3.8	9.4	8.2	18.4	21.0	16.8	8.8	.....	.....	.....	2.6
4.....	3.0	4.4	9.2	8.4	18.5	21.2	16.7	8.7	.....	.....	.....	2.3
5.....	3.2	5.0	9.4	8.8	18.5	21.1	16.6	8.5	.....	.....	.....	2.3
6.....	3.4	4.8	9.6	9.0	18.4	21.0	16.4	8.3	.....	.....	.....	2.7
7.....	3.6	4.6	9.4	9.0	18.2	21.0	16.2	8.2	.....	.....	.....	2.8
8.....	4.0	4.2	9.8	9.2	18.0	21.1	16.1	8.0	.....	.....	.....	3.1
9.....	4.4	3.8	10.4	9.6	17.8	21.2	15.8	7.8	.....	.....	.....	3.1
10.....	5.0	3.4	11.4	10.0	17.8	21.2	15.6	7.7	.....	.....	.....	3.2
11.....	5.6	3.6	13.0	10.4	17.6	21.0	15.5	7.6	.....	.....	.....	3.0
12.....	6.8	4.0	13.4	11.0	17.4	20.8	15.2	7.4	.....	.....	.....	2.8
13.....	7.4	4.6	13.0	12.2	17.0	20.8	15.0	7.2	.....	.....	.....	2.7
14.....	7.6	5.2	12.4	13.6	17.2	20.7	14.7	7.0	.....	.....	.....	2.8
15.....	7.8	5.8	11.4	15.0	17.4	20.6	14.4	7.0	.....	.....	.....	4.7
16.....	7.8	6.6	10.6	16.0	17.8	20.4	14.2	6.8	.....	.....	.....	4.8
17.....	8.0	7.0	10.2	17.0	18.0	20.4	13.8	6.7	.....	.....	.....	4.8
18.....	8.0	7.6	10.0	17.8	18.0	20.3	13.6	6.5	.....	.....	.....	4.7
19.....	7.6	8.2	9.8	18.4	18.2	20.2	13.4	6.4	.....	.....	.....	4.0
20.....	7.0	8.4	9.6	18.5	18.2	20.0	13.0	6.2	.....	.....	.....	4.2
21.....	6.4	7.8	9.6	18.5	18.4	20.0	12.8	6.0	.....	.....	5.0	4.2
22.....	6.0	7.2	9.4	18.4	18.8	19.8	12.4	5.9	.....	.....	5.5	4.1
23.....	6.0	7.6	9.4	18.4	19.2	19.4	12.2	5.7	.....	.....	5.0	4.0
24.....	5.8	7.8	9.2	18.2	19.8	18.8	11.8	5.5	.....	.....	4.2	4.1
25.....	5.2	8.4	9.0	17.9	20.6	18.4	11.5	5.3	.....	.....	3.8	4.0
26.....	4.8	9.0	9.0	17.5	21.4	18.2	11.2	5.2	.....	.....	3.7	3.6
27.....	4.4	9.4	8.8	17.0	21.8	17.8	10.8	5.0	.....	.....	3.9	3.0
28.....	3.8	9.8	8.8	16.8	21.8	17.6	10.6	4.8	.....	.....	3.3	3.0
29.....	3.6	10.2	8.6	17.0	21.4	17.4	10.4	4.6	.....	.....	2.8	3.0
30.....	3.4	.....	8.6	17.6	21.2	17.2	10.0	4.5	.....	.....	2.5	6.0
31.....	3.2	.....	8.4	.....	21.0	.....	9.6	4.5	.....	.....	.....	6.0
Means.	5.3	6.2	10.0	10.5	18.9	20.0	13.9	6.8	.....	.....	.....	3.6

## COLUMBIA RIVER SYSTEM—WILLAMETTE RIVER, EUGENE, OREG.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	5.4	4.4	6.4	7.4	4.4	3.6	.....	.....	.....	.....	.....	6.4
2.....	5.4	4.4	6.0	6.8	4.2	3.4	.....	.....	.....	.....	.....	5.8
3.....	7.0	4.4	6.0	6.8	4.2	3.4	.....	.....	.....	.....	.....	5.4
4.....	6.8	4.4	6.2	6.2	4.2	3.4	.....	.....	.....	.....	.....	4.8
5.....	6.0	4.4	6.4	5.8	4.6	3.2	.....	.....	.....	.....	.....	4.4
6.....	5.4	4.4	6.0	5.6	4.4	3.2	.....	.....	.....	.....	.....	4.2
7.....	5.4	4.6	5.8	6.6	4.4	3.0	.....	.....	.....	.....	.....	4.0
8.....	5.8	4.6	7.0	6.6	4.4	3.0	.....	.....	.....	.....	.....	3.6
9.....	5.8	6.0	7.0	6.4	4.4	3.0	.....	.....	.....	.....	.....	3.4
10.....	5.8	5.8	6.4	6.0	4.4	3.0	.....	.....	.....	.....	.....	3.4
11.....	6.2	5.4	6.0	5.6	4.2	3.0	.....	.....	.....	.....	.....	3.2
12.....	11.0	5.4	6.0	5.4	4.2	3.0	.....	.....	.....	.....	.....	3.2
13.....	14.4	5.2	5.6	5.6	4.2	2.8	.....	.....	.....	.....	.....	3.2
14.....	16.8	4.8	5.4	6.4	4.0	3.0	.....	.....	.....	.....	.....	3.2
15.....	11.8	4.8	5.2	6.2	4.0	3.2	.....	.....	.....	.....	.....	3.2
16.....	9.8	4.6	5.0	6.0	4.0	3.2	.....	.....	.....	.....	.....	3.2
17.....	11.0	4.6	4.8	5.4	4.4	3.0	.....	.....	.....	.....	.....	6.2
18.....	10.0	5.2	4.8	5.0	4.2	3.0	.....	.....	.....	.....	.....	6.6
19.....	8.8	5.2	4.6	5.0	4.0	3.0	.....	.....	.....	.....	.....	5.2
20.....	7.8	5.2	4.6	5.0	4.0	3.0	.....	.....	.....	.....	.....	5.4
21.....	7.0	8.0	4.6	4.8	4.0	3.4	.....	.....	.....	.....	.....	13.6
22.....	6.8	12.4	5.6	4.6	3.8	3.4	.....	.....	.....	.....	.....	10.6
23.....	6.4	9.8	5.4	4.6	3.8	3.4	.....	.....	.....	.....	.....	8.4
24.....	6.0	8.0	5.2	4.6	3.8	3.4	.....	.....	.....	.....	.....	8.0
25.....	6.0	7.8	4.6	4.4	3.8	3.2	.....	.....	.....	.....	.....	8.0
26.....	5.8	7.8	4.6	4.4	4.4	3.2	.....	.....	.....	.....	.....	7.6
27.....	5.8	7.0	5.4	4.4	5.4	3.2	.....	.....	.....	.....	.....	7.0
28.....	5.4	6.8	6.0	4.4	4.6	3.2	.....	.....	.....	.....	.....	6.2
29.....	5.0	.....	6.6	4.6	4.4	3.2	.....	.....	.....	.....	.....	5.8
30.....	4.6	.....	9.6	4.4	4.0	3.0	.....	.....	.....	.....	.....	5.6
31.....	4.4	.....	8.6	.....	4.0	.....	.....	.....	.....	.....	.....	5.2
Means.	7.4	5.9	5.9	5.5	4.2	3.2	.....	.....	.....	.....	.....	5.6

## DESCRIPTION OF RIVER GAGES, ETC.

## COLUMBIA RIVER SYSTEM—WILLAMETTE RIVER, EUGENE, OREG.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	5.0	4.8	9.0	6.0	4.2	4.0	.....	.....	.....	.....	3.0	6.4
2.....	7.0	4.6	8.8	7.2	4.2	4.0	.....	.....	.....	.....	3.0	11.4
3.....	7.0	4.4	8.4	6.8	4.0	4.0	.....	.....	.....	.....	2.8	9.8
4.....	6.4	4.2	8.0	6.4	4.0	4.0	.....	.....	.....	.....	2.8	10.0
5.....	5.8	4.2	7.6	7.0	4.0	4.0	.....	.....	.....	.....	2.4	9.2
6.....	5.4	4.0	6.6	7.0	4.0	4.0	.....	.....	.....	.....	2.4	8.6
7.....	5.0	4.0	6.2	6.4	4.0	4.0	.....	.....	.....	.....	2.6	8.0
8.....	5.4	4.0	5.8	6.4	4.0	3.8	.....	.....	.....	.....	2.6	7.0
9.....	5.2	3.8	5.4	6.2	4.0	3.8	.....	.....	.....	.....	2.4	13.0
10.....	5.2	3.6	6.0	6.2	4.2	3.6	.....	.....	.....	.....	2.4	11.2
11.....	5.0	3.6	5.6	6.2	4.2	3.4	.....	.....	.....	.....	2.4	8.0
12.....	9.0	3.6	5.8	6.2	4.0	3.4	.....	.....	.....	.....	2.4	7.4
13.....	14.4	4.0	6.0	6.2	4.0	3.4	.....	.....	.....	.....	2.4	6.0
14.....	18.4	6.6	5.8	6.0	4.0	3.4	.....	.....	.....	.....	2.2	5.8
15.....	16.0	8.0	5.6	5.8	4.2	3.2	.....	.....	.....	.....	2.2	5.4
16.....	11.0	16.4	5.4	5.4	4.8	3.2	.....	.....	.....	.....	2.2	5.0
17.....	9.0	15.0	5.4	5.2	5.2	3.2	.....	.....	.....	.....	2.2	4.6
18.....	8.0	12.0	5.4	5.2	5.0	3.2	.....	.....	.....	.....	2.4	4.4
19.....	7.6	9.0	4.8	5.0	5.0	3.2	.....	.....	.....	.....	2.4	4.4
20.....	7.2	11.0	4.8	5.0	4.8	3.2	.....	.....	.....	.....	2.4	4.2
21.....	6.8	9.6	4.8	5.2	4.8	3.2	.....	.....	.....	.....	2.6	4.2
22.....	6.8	8.4	4.6	5.0	4.8	3.0	.....	.....	.....	.....	4.0	4.2
23.....	6.6	7.8	5.0	4.8	4.8	3.0	.....	.....	.....	.....	8.0	4.4
24.....	6.6	9.0	5.6	4.8	4.6	3.0	.....	.....	.....	.....	7.0	4.6
25.....	6.6	8.8	6.4	4.8	4.4	3.0	.....	.....	.....	.....	5.4	6.0
26.....	6.4	8.8	9.0	4.8	4.4	3.0	.....	.....	.....	.....	5.0	5.6
27.....	6.0	10.0	8.6	4.4	4.4	3.0	.....	.....	.....	.....	4.6	5.4
28.....	5.6	9.8	7.6	4.4	4.2	3.0	.....	.....	.....	.....	4.4	5.0
29.....	5.2	.....	7.6	4.2	4.2	3.0	.....	.....	.....	.....	4.4	4.8
30.....	5.2	.....	7.0	4.2	4.2	3.0	.....	.....	.....	.....	4.0	4.6
31.....	5.0	.....	6.4	.....	4.0	.....	.....	.....	.....	.....	.....	4.4
<b>Means.</b>	<b>7.4</b>	<b>7.2</b>	<b>6.4</b>	<b>5.6</b>	<b>4.3</b>	<b>3.4</b>	.....	.....	.....	.....	<b>3.3</b>	<b>6.5</b>
<b>1902</b>												
1.....	4.4	3.8	8.4	5.6	5.8	6.2	.....	.....	.....	.....	2.0	9.6
2.....	4.4	3.8	7.6	6.0	6.6	6.0	.....	.....	.....	.....	2.0	8.6
3.....	4.4	4.0	7.4	5.8	6.8	6.0	.....	.....	.....	.....	2.6	7.4
4.....	4.2	4.0	7.0	6.2	6.4	6.0	.....	.....	.....	.....	2.4	13.6
5.....	4.4	4.4	6.8	6.0	6.2	5.8	.....	.....	.....	.....	2.2	14.8
6.....	4.4	6.2	6.6	5.8	6.2	5.6	.....	.....	.....	.....	2.4	9.8
7.....	6.0	7.4	6.2	7.8	6.2	5.6	.....	.....	.....	.....	2.8	8.0
8.....	6.8	8.0	6.2	10.2	6.0	5.4	.....	.....	.....	.....	4.2	9.8
9.....	6.6	8.4	6.0	9.0	6.0	5.4	.....	.....	.....	.....	7.0	11.0
10.....	5.8	13.0	6.2	8.2	5.8	5.4	.....	.....	.....	.....	5.4	12.0
11.....	5.0	10.4	6.2	7.6	5.8	5.2	.....	.....	.....	.....	5.6	8.6
12.....	5.0	9.0	6.0	7.4	5.8	5.2	.....	.....	.....	.....	5.8	7.8
13.....	4.8	8.2	6.0	7.0	5.6	5.2	.....	.....	.....	.....	5.0	7.4
14.....	4.4	7.0	6.2	6.8	6.0	5.0	.....	.....	.....	.....	5.0	6.6
15.....	4.4	7.0	6.4	6.4	6.0	5.0	.....	.....	.....	.....	4.8	6.4
16.....	4.2	7.0	6.8	6.6	6.2	.....	.....	.....	.....	.....	6.4	6.2
17.....	4.2	7.0	7.6	9.0	6.2	.....	.....	.....	.....	.....	8.4	5.8
18.....	4.2	7.0	7.4	8.4	7.0	.....	.....	.....	.....	.....	9.0	5.0
19.....	4.2	7.0	7.0	7.0	8.2	.....	.....	.....	.....	.....	10.0	4.8
20.....	4.2	6.8	6.8	6.8	7.8	.....	.....	.....	.....	.....	7.0	4.8
21.....	4.0	6.4	7.0	6.4	7.6	.....	.....	.....	.....	.....	6.2	4.8
22.....	4.0	6.2	6.8	6.4	7.2	.....	.....	.....	.....	.....	5.2	4.8
23.....	3.8	6.2	6.6	6.4	6.8	.....	.....	.....	.....	.....	5.2	6.2
24.....	3.8	6.4	6.6	6.2	6.6	.....	.....	.....	.....	.....	5.0	6.4
25.....	3.8	6.2	6.6	6.0	6.0	.....	.....	.....	.....	.....	5.0	6.2
26.....	3.8	9.0	6.4	5.8	6.0	.....	.....	.....	.....	.....	5.0	6.4
27.....	3.6	9.6	6.2	5.8	6.2	.....	.....	.....	.....	.....	4.8	6.2
28.....	3.6	9.8	5.8	5.6	6.2	.....	.....	.....	.....	.....	4.8	6.2
29.....	3.6	.....	5.8	5.4	6.0	.....	.....	.....	.....	.....	4.6	6.0
30.....	3.8	.....	5.6	5.4	6.0	.....	.....	.....	.....	.....	5.4	5.4
31.....	3.8	.....	5.6	.....	5.8	.....	.....	.....	.....	.....	.....	5.8
<b>Means.</b>	<b>4.4</b>	<b>7.1</b>	<b>6.6</b>	<b>7.1</b>	<b>6.4</b>	<b>5.5</b>	.....	.....	.....	.....	<b>5.0</b>	<b>7.5</b>

## DESCRIPTION OF RIVER GAGES, ETC.

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## COLUMBIA RIVER SYSTEM—WILLAMETTE RIVER, EUGENE, OREG.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	7.0	6.6	5.2	5.2	3.2	4.0					2.2	5.2
2.....	7.2	6.0	5.0	5.0	3.2	4.0					2.2	5.0
3.....	6.2	5.8	5.0	5.0	3.4	4.4					2.2	5.0
4.....	6.4	5.6	4.8	4.8	3.8	4.6					2.2	5.0
5.....	6.0	5.4	4.4	4.8	4.0	4.8					2.4	4.8
6.....	5.8	5.4	4.4	4.8	4.2	4.6					2.4	4.8
7.....	5.6	5.2	4.2	4.8	4.2	4.6					2.6	4.6
8.....	5.6	5.2	4.2	4.8	4.2	4.6					4.0	4.6
9.....	5.6	5.4	4.0	4.6	4.4	4.4					4.8	4.6
10.....	5.4	7.2	4.0	4.6	4.0	4.4					5.0	4.6
11.....	5.2	6.4	5.0	4.6	4.0	4.4					8.4	4.4
12.....	5.2	6.0	7.0	4.2	4.0	4.3					9.6	4.4
13.....	5.0	5.8	7.6	4.2	4.0	4.3					9.0	4.4
14.....	4.8	5.4	7.4	4.2	4.2	4.4					8.6	4.6
15.....	4.6	5.2	7.0	4.0	4.4	4.4					8.6	4.6
16.....	4.2	5.2	6.8	4.0	4.4	4.4					7.6	4.8
17.....	4.0	5.0	6.4	4.0	4.4	4.3					7.0	5.2
18.....	4.2	5.0	6.2	4.0	4.6	4.3					6.8	5.8
19.....	5.6	4.8	6.0	4.0	4.6	4.3					6.8	7.6
20.....	7.4	4.8	5.4	4.0	4.6	4.3					6.4	7.2
21.....	9.6	4.8	5.2	4.0	4.6	4.2					6.4	7.0
22.....	14.4	5.0	4.8	3.6	4.6	4.2					6.2	6.8
23.....	10.4	5.0	4.4	3.4	4.6	4.2					6.0	6.8
24.....	14.0	6.0	4.4	3.4	4.4	4.2					6.0	6.4
25.....	21.0	5.8	4.2	3.4	4.4	4.0					5.8	6.0
26.....	12.4	5.4	4.0	3.4	4.2	4.0					5.6	5.6
27.....	10.2	5.4	4.0	3.4	4.6	4.0					5.4	5.4
28.....	8.4	5.4	5.2	3.4	4.4	4.2					5.4	5.0
29.....	7.6		5.4	3.2	4.2	4.2					5.4	4.4
30.....	8.2		5.4	3.2	4.2	4.2					5.2	4.0
31.....	7.2		5.2		4.0							3.8
<b>Means.</b>	7.6	5.5	5.2	4.1	4.2	4.3					5.5	5.2
<b>1904</b>												
1.....	3.6	5.0	9.0	7.4	7.0	5.0					1.8	3.0
2.....	3.6	4.8	9.2	7.2	6.8	4.8					1.8	3.0
3.....	3.4	4.6	9.8	7.2	6.6	4.8					2.0	3.0
4.....	3.4	4.6	12.4	7.0	6.6	4.8					2.0	3.2
5.....	3.4	4.6	9.8	7.2	6.4	4.6					2.2	3.2
6.....	3.2	4.6	8.2	7.4	6.0	4.6					2.2	3.2
7.....	3.2	4.4	9.8	7.4	6.0	4.6					2.2	3.2
8.....	3.2	4.4	13.6	7.2	6.0	4.6					2.2	3.2
9.....	5.8	4.8	12.2	7.0	5.8	4.4					2.2	3.4
10.....	9.2	5.4	9.6	7.6	5.8	4.4					2.2	3.8
11.....	11.2	7.6	8.8	7.4	5.8	4.2					2.2	4.6
12.....	9.4	9.6	8.2	7.6	5.6	4.2					2.2	7.4
13.....	8.2	9.4	7.4	8.0	5.2	4.2					2.2	7.8
14.....	7.8	9.4	8.0	8.2	5.2	4.2					2.2	7.6
15.....	7.4	12.0	7.6	7.6	5.4	4.2					2.8	7.6
16.....	6.6	15.5	7.4	7.4	5.6	4.0					3.0	7.8
17.....	6.4	9.6	7.4	7.2	6.0	3.8					3.0	7.4
18.....	6.4	8.4	7.2	7.0	6.2	4.0					3.4	7.0
19.....	6.2	8.0	7.8	7.0	6.2	4.0					3.2	6.4
20.....	6.0	8.8	8.4	6.8	6.2	3.8					3.0	6.0
21.....	7.8	9.2	8.2	6.4	6.0	3.8					2.8	5.8
22.....	7.6	9.4	8.6	6.4	6.0	3.8					2.8	5.0
23.....	7.6	10.4	8.6	6.2	6.0	3.8					3.0	5.0
24.....	7.2	10.0	8.4	6.0	5.8	3.8					2.8	5.8
25.....	7.0	9.4	8.2	6.0	5.8	3.8					2.6	6.4
26.....	6.6	9.4	7.6	6.2	5.6	3.6					2.6	5.8
27.....	6.4	10.2	7.4	6.2	5.4	3.6					2.6	5.4
28.....	6.0	8.4	7.4	6.2	5.2	3.6					2.8	5.2
29.....	5.6	8.6	8.0	6.4	5.0	3.6					2.8	6.4
30.....	5.4		8.6	6.4	5.0	3.6					2.8	14.0
31.....	5.4		7.6		5.0							9.4
<b>Means.</b>	6.1	7.9	8.7	7.0	5.8	4.1					2.5	5.7

## DESCRIPTION OF RIVER GAGES, ETC.

## COLUMBIA RIVER SYSTEM—WILLAMETTE RIVER, ALBANY, OREG.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	6.5	5.6	8.4	10.2	4.0	3.3	2.4	1.4	0.7	0.7	10.0	6.4
2.....	6.6	5.5	7.5	9.0	3.9	3.2	2.3	1.4	0.7	0.8	9.5	7.0
3.....	7.2	5.5	7.5	8.4	3.8	3.0	2.1	1.4	0.7	0.8	8.5	6.5
4.....	8.5	5.5	7.4	7.8	3.7	3.0	2.0	1.4	0.7	0.8	7.9	6.0
5.....	6.6	5.5	7.3	5.4	3.7	2.9	1.9	1.3	0.7	0.9	7.6	5.5
6.....	6.5	5.2	7.0	5.0	3.8	2.9	1.9	1.3	0.7	0.9	5.3	5.0
7.....	6.6	5.2	6.5	5.5	3.8	2.8	1.9	1.3	0.7	0.9	5.4	4.5
8.....	6.7	5.2	8.4	6.0	4.0	2.7	1.8	1.2	0.8	0.9	4.5	4.0
9.....	6.8	5.5	9.8	6.5	4.0	2.6	1.8	1.2	0.9	1.0	4.3	3.0
10.....	7.0	6.6	10.5	6.0	4.1	2.5	1.8	1.2	0.9	1.0	3.7	3.5
11.....	7.0	6.4	9.2	6.2	4.0	2.4	1.8	1.1	0.9	1.0	3.5	3.5
12.....	8.5	6.2	8.0	5.9	3.8	2.3	1.7	1.1	0.9	1.0	3.2	3.2
13.....	13.6	6.0	7.5	5.8	3.8	2.2	1.7	1.1	1.0	1.0	3.0	3.5
14.....	18.2	6.3	7.3	6.0	3.8	2.3	1.6	1.0	1.0	1.0	2.9	3.8
15.....	24.0	6.0	6.6	6.4	3.7	2.4	1.6	0.9	1.0	1.0	2.7	4.0
16.....	22.5	5.7	6.3	6.8	3.7	2.5	1.5	0.9	1.0	1.0	2.6	5.0
17.....	17.3	5.5	6.0	5.7	4.2	2.5	1.5	0.9	1.0	1.0	2.5	5.5
18.....	16.5	5.3	6.2	5.5	4.0	2.5	1.5	0.9	1.0	1.0	2.7	7.4
19.....	15.5	5.2	6.4	4.8	3.8	2.5	1.5	0.9	1.0	1.4	3.0	6.5
20.....	12.9	5.5	5.2	4.5	3.6	2.5	1.5	0.8	0.9	1.9	3.5	6.5
21.....	10.8	6.9	6.6	4.5	3.5	2.5	1.5	0.8	0.9	2.3	3.0	9.8
22.....	9.6	12.0	5.9	4.4	3.5	2.5	1.5	0.8	0.9	3.0	3.0	15.8
23.....	8.5	16.7	5.4	4.2	3.3	2.5	1.5	0.8	0.9	3.4	3.0	18.5
24.....	8.5	16.0	5.4	4.2	3.3	2.5	1.5	0.8	0.8	4.0	3.0	14.8
25.....	8.2	12.0	5.4	4.1	3.0	2.5	1.5	0.7	0.8	3.8	4.1	11.5
26.....	7.9	10.4	6.0	4.0	3.5	2.4	1.5	0.7	0.8	3.5	5.2	10.5
27.....	7.4	10.4	6.5	4.0	4.0	2.3	1.5	0.7	0.7	3.6	8.8	9.5
28.....	6.0	9.0	6.4	4.0	4.3	2.2	1.4	0.7	0.7	3.7	8.4	8.0
29.....	6.5	.....	6.6	4.0	4.0	2.1	1.4	0.7	0.6	3.5	6.4	7.5
30.....	6.2	.....	8.4	4.0	3.5	2.0	1.4	0.7	0.6	4.4	6.0	7.0
31.....	5.9	.....	11.5	.....	3.5	.....	1.4	0.7	.....	4.6	.....	6.4
<b>Means.</b>	<b>10.0</b>	<b>7.4</b>	<b>7.2</b>	<b>5.6</b>	<b>3.8</b>	<b>2.6</b>	<b>1.7</b>	<b>1.0</b>	<b>0.8</b>	<b>1.9</b>	<b>4.9</b>	<b>7.1</b>
<b>1901</b>												
1.....	6.0	5.3	14.0	7.0	4.2	4.0	1.9	1.3	0.8	2.2	2.0	5.0
2.....	7.2	5.0	12.5	6.4	4.2	3.2	1.9	1.2	0.8	1.5	2.0	7.6
3.....	7.5	4.7	11.5	8.0	4.3	3.5	1.9	1.1	0.8	1.5	2.0	12.4
4.....	8.2	4.5	10.5	7.6	4.4	3.5	1.9	1.0	0.8	1.5	2.0	12.9
5.....	7.5	4.3	8.5	7.5	4.4	3.5	1.9	1.0	0.8	1.5	1.8	13.4
6.....	7.2	4.1	8.0	8.2	4.3	3.4	1.9	0.9	0.8	1.5	1.7	12.5
7.....	6.0	4.0	7.5	8.7	4.3	3.4	1.9	0.9	0.8	1.5	1.5	11.4
8.....	7.5	3.8	7.4	9.2	4.3	3.3	1.9	0.9	0.8	1.5	1.4	11.0
9.....	7.5	3.6	7.5	8.4	4.4	3.2	1.8	0.9	0.8	1.4	1.5	10.5
10.....	7.0	3.4	7.7	7.5	4.4	3.1	1.8	0.8	0.9	1.3	1.5	15.5
11.....	6.5	3.2	7.9	7.3	4.7	3.0	1.8	0.8	0.9	1.2	1.5	18.4
12.....	7.9	3.2	8.0	7.3	4.9	3.0	1.8	0.8	0.9	1.1	1.2	13.5
13.....	13.6	3.4	7.7	7.0	5.0	3.0	1.8	0.8	0.9	1.0	1.1	10.0
14.....	20.9	5.0	7.0	6.8	5.0	3.0	1.7	0.8	0.9	1.0	1.0	8.1
15.....	30.4	7.5	6.2	6.5	5.0	2.9	1.7	0.8	1.0	1.0	1.3	7.0
16.....	28.4	11.0	6.5	6.1	4.9	2.8	1.6	0.8	1.0	1.0	1.4	6.2
17.....	23.0	17.4	6.5	5.8	4.9	2.7	1.6	0.8	1.0	1.0	1.8	5.5
18.....	15.8	26.0	6.4	5.7	5.0	2.6	1.5	0.8	1.0	1.0	1.2	5.3
19.....	12.2	19.6	6.0	5.5	5.0	2.5	1.5	0.8	1.0	1.0	1.2	5.1
20.....	10.5	14.0	5.5	5.3	5.1	2.5	1.5	0.8	1.0	1.0	1.5	4.9
21.....	9.4	14.5	5.1	5.6	5.0	2.5	1.5	0.8	1.1	1.0	1.5	4.5
22.....	8.5	13.5	5.3	5.9	5.0	2.5	1.4	0.8	1.2	1.0	2.0	4.3
23.....	8.3	11.4	5.5	4.7	4.9	2.4	1.4	0.8	1.7	1.0	3.5	3.9
24.....	8.5	11.7	5.7	4.7	4.8	2.3	1.4	0.8	1.8	1.0	9.4	4.0
25.....	8.1	12.0	5.9	4.3	4.7	2.2	1.4	0.8	1.8	1.0	8.5	4.1
26.....	7.5	12.4	8.4	4.5	4.6	2.1	1.3	0.8	2.0	1.0	6.5	4.2
27.....	7.0	12.4	10.4	4.5	4.5	2.0	1.3	0.8	2.2	1.0	5.5	4.2
28.....	6.5	13.6	10.0	4.2	4.5	2.0	1.3	0.8	2.6	1.0	4.4	4.4
29.....	6.2	.....	8.9	4.0	4.5	2.0	1.3	0.8	2.5	1.4	3.9	4.5
30.....	6.0	.....	8.0	4.0	4.3	1.9	1.3	0.8	2.4	1.7	3.8	4.6
31.....	5.6	.....	7.5	.....	4.0	.....	1.3	0.8	.....	2.0	.....	4.7
<b>Means.</b>	<b>10.4</b>	<b>9.1</b>	<b>7.9</b>	<b>6.3</b>	<b>4.6</b>	<b>2.8</b>	<b>1.6</b>	<b>0.9</b>	<b>1.2</b>	<b>1.3</b>	<b>2.7</b>	<b>7.9</b>



## COLUMBIA RIVER SYSTEM—WILLAMETTE RIVER, ALBANY, OREG.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	4.5	3.0	13.4	5.4	4.5	5.6	2.5	1.5	0.8	1.0	1.0	7.3
2.....	4.2	3.1	11.5	5.5	5.4	5.6	2.5	1.5	0.8	1.0	1.0	11.5
3.....	4.2	3.3	10.3	5.6	6.0	5.5	2.7	1.5	0.8	1.0	1.5	12.9
4.....	4.4	3.5	9.4	5.5	5.9	5.5	4.0	1.5	0.8	0.8	2.4	12.5
5.....	4.5	4.0	10.6	5.6	5.5	5.5	6.0	1.5	0.8	0.8	2.0	17.2
6.....	4.6	5.4	11.0	5.8	5.4	5.3	6.2	1.4	0.8	0.8	1.7	24.5
7.....	6.4	6.6	10.1	6.0	5.8	5.0	5.5	1.4	0.8	0.8	2.4	20.3
8.....	9.2	8.5	9.5	9.1	5.9	4.8	4.5	1.4	0.8	0.8	3.1	14.5
9.....	10.2	10.3	8.7	12.2	6.0	4.6	4.2	1.4	0.8	0.8	5.4	15.8
10.....	8.0	12.4	8.1	11.5	6.0	4.6	3.7	1.4	0.8	0.8	7.6	17.4
11.....	7.9	17.0	7.5	10.0	6.1	4.5	3.5	1.3	0.8	0.8	6.0	19.4
12.....	7.0	16.2	7.3	9.4	6.2	4.0	3.9	1.3	0.8	0.8	5.9	16.0
13.....	6.5	14.5	7.4	8.5	5.8	4.0	4.3	1.3	0.8	0.9	5.9	13.3
14.....	5.8	12.4	7.5	7.9	5.9	3.8	4.7	1.3	0.8	0.9	4.9	11.7
15.....	5.5	10.4	7.5	7.1	6.0	3.7	4.7	1.3	0.8	1.0	5.5	10.0
16.....	4.7	9.9	7.5	7.0	6.4	3.5	4.6	1.3	0.8	1.0	6.4	8.8
17.....	4.5	9.5	7.5	7.4	6.2	3.5	4.5	1.2	0.8	1.0	7.5	7.7
18.....	4.5	9.3	7.5	7.7	6.8	3.4	4.3	1.2	0.8	1.0	11.7	6.9
19.....	4.4	9.6	8.5	8.0	7.5	3.3	4.2	1.2	0.8	1.0	13.1	6.2
20.....	4.2	9.7	8.5	8.3	8.0	3.2	4.0	1.2	0.8	1.0	14.0	5.6
21.....	4.1	8.3	8.4	8.0	8.0	3.1	3.8	1.2	0.9	1.0	10.5	6.0
22.....	4.0	7.9	8.4	7.5	7.9	3.0	3.8	1.2	0.9	1.0	8.8	6.6
23.....	3.8	7.5	8.2	7.0	7.7	3.0	3.6	1.1	1.0	1.0	7.5	7.0
24.....	3.7	7.0	8.0	6.3	7.4	2.9	3.4	1.1	1.0	1.0	6.2	7.9
25.....	3.5	7.5	7.4	6.0	6.8	2.8	3.2	1.1	1.0	1.0	5.5	8.8
26.....	3.3	9.4	7.2	5.8	6.2	2.7	2.8	1.1	1.0	1.0	5.1	8.9
27.....	3.1	12.0	7.0	5.3	6.2	2.6	2.5	1.1	1.0	1.0	4.8	9.3
28.....	3.0	13.0	6.5	4.8	6.4	2.5	2.2	1.0	1.0	1.0	4.9	8.7
29.....	2.9	-----	6.2	4.5	6.4	2.5	1.9	1.0	1.0	1.0	5.0	8.0
30.....	2.8	-----	6.3	4.5	6.0	2.5	1.6	1.0	1.0	1.0	5.2	7.4
31.....	2.8	-----	6.5	-----	5.6	-----	1.5	1.0	-----	1.0	-----	7.0
<b>Means.</b>	<b>4.9</b>	<b>9.0</b>	<b>8.4</b>	<b>7.1</b>	<b>6.3</b>	<b>3.9</b>	<b>3.7</b>	<b>1.3</b>	<b>0.9</b>	<b>0.9</b>	<b>5.8</b>	<b>11.1</b>
<b>1903</b>												
1.....	8.1	13.9	5.4	6.0	4.0	4.6	2.5	1.4	1.1	1.0	1.0	6.2
2.....	9.5	11.8	5.1	5.7	4.2	4.7	2.4	1.4	1.3	1.0	1.2	5.9
3.....	11.0	9.5	4.9	5.3	4.3	4.5	2.4	1.3	1.4	1.0	1.5	5.5
4.....	10.5	8.3	4.7	4.9	4.4	4.2	2.4	1.3	1.5	1.0	1.5	5.1
5.....	10.0	7.5	4.5	4.7	4.5	3.9	2.3	1.3	1.6	1.3	1.6	5.8
6.....	9.0	7.0	4.5	4.5	4.5	3.6	2.3	1.3	1.7	1.7	1.7	5.6
7.....	8.2	6.4	4.5	4.5	4.6	3.6	2.2	1.3	1.8	3.1	2.6	4.5
8.....	7.5	6.9	4.5	4.7	4.5	3.6	2.2	1.3	1.9	3.0	4.0	4.3
9.....	6.9	7.3	4.5	5.2	4.3	3.8	2.2	1.3	1.9	2.5	3.9	4.0
10.....	6.0	7.6	4.6	5.0	4.3	3.9	2.1	1.3	2.0	2.1	3.8	3.8
11.....	5.8	10.8	4.8	4.9	4.3	3.8	2.1	1.2	2.1	2.0	5.7	3.6
12.....	5.5	11.4	7.4	4.6	4.4	3.8	2.0	1.2	2.3	2.0	9.1	3.6
13.....	5.0	10.0	10.0	4.4	4.4	3.7	1.9	1.2	2.4	1.9	12.4	3.7
14.....	4.8	9.3	8.5	4.4	4.4	3.5	1.9	1.2	2.5	1.8	9.3	3.7
15.....	4.7	7.9	8.5	4.0	4.5	3.2	1.9	1.1	2.3	1.7	12.2	3.9
16.....	4.5	6.5	8.5	3.8	4.5	3.2	1.9	1.1	2.0	1.6	12.5	4.1
17.....	4.3	6.0	7.4	3.7	4.5	3.2	1.9	1.1	1.6	1.6	9.9	5.8
18.....	4.1	5.8	6.6	3.6	4.6	3.1	1.9	1.1	1.5	1.5	8.4	5.8
19.....	3.9	5.6	5.8	3.5	4.5	3.0	1.8	1.0	1.4	1.4	6.9	5.8
20.....	4.3	5.4	5.4	3.4	4.3	2.8	1.7	1.0	1.3	1.4	6.9	5.7
21.....	5.0	5.2	4.9	3.3	4.2	2.7	1.7	1.0	1.2	1.3	8.7	5.6
22.....	11.5	6.0	4.7	3.7	4.0	2.6	1.6	1.0	1.2	1.2	11.6	5.5
23.....	17.5	6.6	4.5	4.0	3.9	2.6	1.6	1.2	1.2	1.2	14.5	5.4
24.....	18.4	6.3	4.5	4.2	3.8	2.6	1.5	1.4	1.2	1.2	13.8	5.2
25.....	21.8	6.5	4.6	4.3	3.7	2.5	1.5	1.6	1.1	1.1	13.4	5.0
26.....	31.3	6.3	4.8	4.4	3.7	2.5	1.4	1.4	1.1	1.1	10.0	4.9
27.....	27.0	6.0	4.8	4.5	3.7	2.4	1.4	1.5	1.0	1.0	8.7	4.8
28.....	20.8	5.8	4.9	4.5	4.0	2.5	1.4	1.3	1.0	1.0	8.0	4.6
29.....	15.6	-----	5.7	4.5	4.1	2.6	1.4	1.2	1.0	1.0	7.2	4.4
30.....	13.8	-----	6.6	4.2	4.3	2.6	1.4	1.1	1.0	1.0	6.6	4.3
31.....	14.1	-----	6.3	-----	4.4	-----	1.4	1.0	-----	1.0	-----	4.2
<b>Means.</b>	<b>10.7</b>	<b>7.6</b>	<b>5.7</b>	<b>4.4</b>	<b>4.3</b>	<b>3.3</b>	<b>1.9</b>	<b>1.2</b>	<b>1.6</b>	<b>1.5</b>	<b>7.3</b>	<b>4.8</b>

## DESCRIPTION OF RIVER GAGES, ETC.

## COLUMBIA RIVER SYSTEM—WILLAMETTE RIVER, ALBANY, OREG.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	4.2	5.2	14.9	11.2	8.0	4.8	2.5	1.6	1.0	0.9	0.9	2.5
2.....	4.2	5.2	16.2	9.5	7.6	4.8	2.4	1.6	1.0	0.9	1.0	2.7
3.....	4.2	5.1	16.4	9.4	7.3	4.8	2.4	1.5	1.0	0.9	1.0	2.6
4.....	4.3	5.0	14.8	9.3	7.0	4.7	2.3	1.5	1.0	0.9	1.0	2.4
5.....	4.3	4.9	17.0	8.9	6.6	4.6	2.3	1.5	1.0	0.9	1.0	2.2
6.....	4.3	5.5	15.3	8.6	6.4	4.5	2.2	1.4	1.0	0.9	1.0	2.0
7.....	4.4	6.0	13.3	8.5	6.2	4.4	2.1	1.4	1.0	0.9	1.0	1.9
8.....	4.4	6.5	15.5	8.5	6.0	4.2	2.1	1.4	1.0	0.9	1.2	1.9
9.....	4.5	6.5	18.6	8.2	5.8	4.0	2.1	1.4	1.0	0.9	1.1	1.8
10.....	7.5	6.5	21.0	8.8	5.8	3.9	2.0	1.3	1.0	0.9	1.1	2.0
11.....	10.5	7.5	16.9	9.4	5.8	3.8	2.0	1.3	1.0	1.1	1.0	2.8
12.....	15.6	11.0	13.6	10.2	5.8	3.7	2.0	1.3	1.0	1.6	1.0	3.9
13.....	14.0	13.0	12.9	11.1	5.8	3.6	2.0	1.3	1.0	1.9	1.0	5.2
14.....	12.0	11.8	12.2	11.5	5.8	3.5	2.0	1.3	1.0	1.6	1.0	8.0
15.....	10.5	13.8	13.1	11.0	5.7	3.5	2.0	1.2	1.0	1.2	1.2	8.9
16.....	11.5	19.8	13.8	9.9	5.7	3.4	2.1	1.2	1.0	1.4	1.3	9.6
17.....	11.0	a 24.5	12.0	8.8	5.7	3.3	2.2	1.2	1.0	1.6	1.6	8.0
18.....	10.9	21.0	11.8	7.9	5.7	3.2	2.2	1.2	1.0	2.2	2.0	6.7
19.....	10.6	14.0	11.9	7.5	6.0	3.1	2.1	1.2	1.0	1.8	2.4	6.8
20.....	10.3	11.5	12.2	7.4	6.4	3.0	2.1	1.2	1.0	1.7	2.5	6.0
21.....	9.0	10.7	12.5	7.3	6.0	3.0	2.0	1.2	1.0	1.6	2.5	5.0
22.....	9.2	10.8	12.0	7.2	6.0	2.9	2.0	1.2	1.0	1.4	3.0	4.8
23.....	9.0	14.8	11.5	7.0	5.8	2.8	2.0	1.2	1.0	1.3	2.8	4.7
24.....	8.8	16.9	10.6	6.6	5.6	2.8	1.9	1.1	1.0	1.2	3.2	5.3
25.....	8.6	16.3	9.7	6.2	5.4	2.7	1.9	1.1	1.0	1.1	2.6	6.4
26.....	8.5	15.0	9.6	6.6	5.2	2.7	1.8	1.1	1.0	1.0	2.6	7.5
27.....	7.5	15.5	9.5	7.0	5.1	2.6	1.8	1.1	1.0	1.0	2.5	6.4
28.....	6.4	16.7	9.5	7.3	5.0	2.6	1.8	1.1	1.0	1.0	2.4	5.7
29.....	5.6	15.2	10.8	7.5	4.9	2.5	1.7	1.1	1.0	0.9	2.4	6.3
30.....	5.4	-----	13.4	7.7	4.8	2.5	1.7	1.1	1.0	0.9	2.5	11.0
31.....	5.2	-----	12.8	-----	4.8	-----	1.6	1.1	-----	0.9	-----	16.8
Means.	7.9	11.6	13.4	8.5	5.9	3.5	2.0	1.3	1.0	1.2	1.7	5.4

## COLUMBIA RIVER SYSTEM—WILLAMETTE RIVER, SALEM, OREG.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	6.2	5.0	6.5	8.0	3.6	3.3	-----	-----	-----	-----	-----	5.1
2.....	6.7	5.0	6.7	7.7	3.6	3.0	-----	-----	-----	-----	-----	5.3
3.....	7.3	5.2	7.0	7.9	3.5	3.0	-----	-----	-----	-----	-----	5.4
4.....	7.5	5.3	7.2	7.8	3.5	2.8	-----	-----	-----	-----	-----	6.0
5.....	7.8	5.4	7.5	7.5	3.5	2.7	-----	-----	-----	-----	-----	6.0
6.....	7.5	5.5	7.7	7.3	3.6	2.5	-----	-----	-----	-----	-----	5.0
7.....	7.3	5.5	8.0	7.2	3.6	2.3	-----	-----	-----	-----	-----	4.7
8.....	7.2	6.0	9.0	7.0	3.8	2.2	-----	-----	-----	-----	-----	4.5
9.....	7.0	6.5	12.0	6.8	3.8	2.2	-----	-----	-----	-----	-----	4.0
10.....	6.8	7.0	11.5	6.9	3.9	2.1	-----	-----	-----	-----	-----	3.8
11.....	8.0	7.0	11.0	7.0	3.9	2.0	-----	-----	-----	-----	-----	4.0
12.....	8.9	6.0	10.5	6.5	3.9	2.0	-----	-----	-----	-----	-----	4.2
13.....	14.0	6.7	10.0	6.3	3.9	2.0	-----	-----	-----	-----	-----	4.5
14.....	19.0	5.4	9.0	6.0	3.8	2.0	-----	-----	-----	-----	-----	4.9
15.....	21.0	5.3	8.0	5.8	3.8	1.9	-----	-----	-----	-----	-----	5.0
16.....	21.5	5.4	7.0	5.3	3.9	2.0	-----	-----	-----	-----	-----	5.5
17.....	19.2	5.2	6.0	5.0	4.0	2.1	-----	-----	-----	-----	-----	6.0
18.....	17.7	5.1	5.8	5.0	3.8	2.3	-----	-----	-----	-----	-----	6.2
19.....	14.0	5.3	5.7	4.9	3.6	2.5	-----	-----	-----	-----	-----	6.7
20.....	12.0	5.6	5.0	4.8	3.5	2.7	-----	-----	-----	-----	-----	13.0
21.....	11.0	6.0	4.8	4.5	3.3	3.0	-----	-----	-----	-----	-----	14.0
22.....	9.5	13.5	4.5	4.0	3.2	-----	-----	-----	-----	-----	-----	16.0
23.....	9.0	14.0	5.0	4.0	3.0	2.7	-----	-----	-----	-----	-----	18.0
24.....	8.4	15.0	5.0	4.0	3.0	2.5	-----	-----	-----	-----	-----	17.0
25.....	8.0	13.0	5.5	3.9	3.0	2.4	-----	-----	-----	-----	-----	15.0
26.....	7.8	11.0	6.0	3.8	2.8	2.3	-----	-----	-----	-----	-----	14.0
27.....	7.5	10.0	7.0	3.7	4.4	2.2	-----	-----	-----	-----	-----	12.0
28.....	6.0	9.0	8.0	3.7	4.3	2.0	-----	-----	-----	-----	-----	10.0
29.....	5.8	-----	8.5	3.7	4.2	2.0	-----	-----	-----	-----	-----	8.0
30.....	5.5	-----	9.5	3.6	3.7	2.0	-----	-----	-----	-----	-----	7.0
31.....	5.0	-----	10.5	-----	3.3	-----	-----	-----	-----	-----	-----	6.7
Means.	10.0	7.3	7.6	5.7	3.6	2.4	-----	-----	-----	-----	-----	8.0

a 24.7 at 1 p. m.

## COLUMBIA RIVER SYSTEM—WILLAMETTE RIVER, SALEM, OREG.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	6.6	5.0	13.2	7.0	4.4	3.8					1.5	5.5
2.....	6.8	4.7	12.7	7.2	4.3	3.6					1.5	10.5
3.....	7.1	4.3	12.0	7.5	4.2	3.3					1.4	12.0
4.....	6.8	4.0	11.2	7.7	4.2	3.3					1.3	13.5
5.....	7.0	3.9	10.7	7.8	4.2	3.0					1.2	13.0
6.....	7.2	3.8	8.4	9.0	4.1	3.0					1.2	12.5
7.....	7.5	3.7	8.2	9.6	4.0	3.0					1.2	12.4
8.....	8.5	3.5	8.0	9.1	4.2	2.9					1.1	12.6
9.....	8.0	3.5	8.5	8.2	4.5	2.8					1.0	13.0
10.....	7.0	3.0	8.5	7.4	5.0	2.7					1.0	15.5
11.....	8.0	2.8	8.3	7.2	5.5	2.7					1.0	16.0
12.....	8.0	2.5	8.0	7.1	5.4	2.7					1.0	13.5
13.....	14.5	3.0	8.0	7.0	5.2	2.7					1.0	10.5
14.....	21.0	7.0	7.8	6.6	5.0	3.1					1.0	9.0
15.....	28.0	9.0	7.5	6.2	5.0	3.0					1.0	8.8
16.....	29.5	13.0	7.2	5.8	4.8	2.9					1.2	8.4
17.....	24.0	20.0	7.0	5.4	5.4	2.7					1.3	7.0
18.....	19.0	20.7	7.5	5.3	5.8	2.6					1.5	6.5
19.....	15.0	18.0	7.0	5.2	5.4	2.6					1.6	4.7
20.....	13.0	15.0	6.5	5.2	5.2	2.5					1.7	4.0
21.....	10.0	12.0	5.5	5.1	5.0	2.5					2.0	3.7
22.....	9.7	11.0	5.4	5.0	5.0	2.4					2.9	3.9
23.....	9.0	9.6	5.6	4.9	5.0	2.4					8.4	8.0
24.....	8.7	12.3	6.0	4.8	4.8	2.4					11.0	7.7
25.....	8.5	13.0	7.8	4.7	4.6	2.4					10.4	7.5
26.....	7.9	14.2	8.4	4.6	4.5	2.3					7.6	7.2
27.....	7.5	15.0	10.0	4.5	4.4	2.2					6.5	6.0
28.....	7.4	14.8	9.8	4.4	4.3	2.1					5.0	5.8
29.....	7.5		8.9	4.2	4.1	2.0					4.5	5.5
30.....	6.5		8.5	4.1	4.0	2.0					4.4	5.3
31.....	6.0		8.0		3.8							5.1
<b>Means.</b>	<b>11.0</b>	<b>9.0</b>	<b>8.4</b>	<b>6.3</b>	<b>4.7</b>	<b>2.7</b>					<b>2.9</b>	<b>8.9</b>
<b>1902</b>												
1.....	5.0	2.9	12.7	5.1	4.7	5.1					0.7	8.7
2.....	4.4	3.0	11.8	5.3	5.0	5.4					0.9	13.8
3.....	5.0	3.1	10.3	5.7	5.6	5.6					1.3	13.5
4.....	6.2	3.5	9.0	5.5	5.9	6.7					3.6	13.8
5.....	7.0	4.0	11.4	5.3	5.7	5.5					2.7	18.5
6.....	7.7	4.5	11.9	5.1	5.3	5.0					2.0	18.9
7.....	10.0	6.7	11.0	6.2	5.4	4.7					1.7	20.0
8.....	12.6	8.3	10.5	9.5	6.0	4.5					4.7	15.9
9.....	11.6	9.6	9.7	11.9	6.4	4.4					9.2	15.2
10.....	9.1	13.6	8.9	11.3	6.3	4.4					8.7	17.9
11.....	8.3	15.2	8.2	10.0	6.3	4.3					7.1	17.4
12.....	7.2	16.2	8.5	9.1	6.4	4.1					6.6	16.0
13.....	6.4	14.3	8.3	8.5	6.0	3.8					5.9	13.5
14.....	5.6	12.5	8.4	8.0	5.7	3.6					5.9	11.7
15.....	5.1	11.8	8.4	7.3	5.9	3.4					6.8	9.8
16.....	4.7	10.6	8.0	6.9	6.3	3.2					6.9	8.9
17.....	4.5	10.5	8.0	7.5	6.3	3.0					10.8	7.5
18.....	4.5	10.8	7.9	7.7	7.2	2.9					13.1	6.9
19.....	4.3	10.7	8.9	8.5	7.9	2.7					13.3	6.1
20.....	4.0	9.5	8.8	9.9	8.3	2.7					12.9	5.6
21.....	3.9	8.7	8.5	9.1	8.1	2.6					11.5	5.3
22.....	3.7	8.0	8.4	8.0	7.9	2.5					8.9	4.9
23.....	3.4	7.4	8.3	7.1	7.4	2.5					7.3	5.7
24.....	3.3	7.2	8.1	6.3	6.9	2.5					6.5	8.4
25.....	3.1	7.6	7.7	5.9	6.5	2.6					6.1	10.3
26.....	2.9	9.7	7.3	5.5	6.0	2.5					5.7	9.6
27.....	2.8	11.7	6.9	5.1	6.1	2.4					5.1	10.5
28.....	2.6	12.5	6.5	4.9	6.4	2.2					5.0	10.0
29.....	2.5		6.1	4.5	6.3	2.0					5.5	9.0
30.....	2.6		5.7	4.5	5.9	1.9					5.7	8.1
31.....	2.6		5.3		5.6							7.9
<b>Means.</b>	<b>5.4</b>	<b>9.1</b>	<b>8.7</b>	<b>7.2</b>	<b>6.3</b>	<b>3.6</b>					<b>6.4</b>	<b>11.3</b>

## DESCRIPTION OF RIVER GAGES, ETC.

## COLUMBIA RIVER SYSTEM—WILLAMETTE RIVER, SALEM, OREG.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	11.9	12.4	5.0	5.9	4.1	4.5	-----	-----	-----	-----	0.7	5.5
2.....	13.0	10.8	4.7	5.6	4.2	4.6	-----	-----	-----	-----	0.7	6.0
3.....	13.2	9.1	4.5	5.1	4.1	4.3	-----	-----	-----	-----	0.7	6.4
4.....	13.6	8.0	4.3	4.7	4.2	3.4	-----	-----	-----	-----	0.7	5.7
5.....	12.9	7.2	4.1	4.5	4.3	3.6	-----	-----	-----	-----	0.7	5.0
6.....	11.1	6.5	3.9	4.3	4.5	3.4	-----	-----	-----	-----	1.4	4.4
7.....	9.5	6.0	3.7	4.2	4.7	3.4	-----	-----	-----	-----	6.0	3.9
8.....	8.4	6.1	3.7	5.0	4.5	3.5	-----	-----	-----	-----	5.0	3.5
9.....	7.6	7.0	3.7	6.3	4.1	3.7	-----	-----	-----	-----	4.4	3.3
10.....	7.0	8.6	3.8	6.0	3.8	3.7	-----	-----	-----	-----	5.5	3.0
11.....	6.4	10.8	4.8	5.5	3.9	3.6	-----	-----	-----	-----	6.0	2.9
12.....	5.8	11.0	8.3	5.0	3.9	3.5	-----	-----	-----	-----	11.9	2.8
13.....	5.3	9.7	9.6	4.6	4.0	3.5	-----	-----	-----	-----	12.2	2.8
14.....	4.9	8.3	8.4	4.3	4.2	3.3	-----	-----	-----	-----	9.9	3.0
15.....	4.5	7.4	8.0	4.2	4.5	3.0	-----	-----	-----	-----	10.8	3.1
16.....	4.3	6.5	7.6	4.0	4.3	3.0	-----	-----	-----	-----	11.8	3.8
17.....	4.1	5.9	6.8	3.8	4.5	3.1	-----	-----	-----	-----	9.8	6.7
18.....	3.9	5.4	6.0	3.7	4.7	2.9	-----	-----	-----	-----	7.8	6.7
19.....	3.7	5.1	5.2	3.7	4.7	2.8	-----	-----	-----	-----	6.5	5.9
20.....	3.9	4.9	4.8	3.6	4.7	2.6	-----	-----	-----	-----	6.7	6.4
21.....	5.0	4.8	4.5	3.5	4.3	2.5	-----	-----	-----	-----	8.4	8.9
22.....	12.2	5.0	4.3	3.5	4.1	2.4	-----	-----	-----	-----	12.2	9.7
23.....	14.2	5.3	4.1	4.0	4.0	2.4	-----	-----	-----	-----	12.8	8.7
24.....	17.1	5.6	4.1	4.4	3.9	2.4	-----	-----	-----	-----	12.6	7.5
25.....	21.2	6.1	4.2	4.2	3.7	2.3	-----	-----	-----	-----	12.0	6.6
26.....	27.0	6.2	4.4	4.3	3.7	2.2	-----	-----	-----	-----	10.3	5.7
27.....	28.6	5.9	4.6	4.7	3.8	2.2	-----	-----	-----	-----	8.6	5.1
28.....	22.6	5.4	4.9	4.7	4.0	2.2	-----	-----	-----	-----	7.4	4.6
29.....	16.1	-----	6.0	4.3	4.1	2.6	-----	-----	-----	-----	6.5	4.2
30.....	13.4	-----	6.4	4.1	4.2	2.6	-----	-----	-----	-----	6.0	3.9
31.....	13.1	-----	6.1	-----	4.2	-----	-----	-----	-----	-----	-----	3.6
<b>Means.</b>	<b>11.1</b>	<b>7.2</b>	<b>5.3</b>	<b>4.5</b>	<b>4.2</b>	<b>3.1</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>7.2</b>	<b>5.1</b>
<b>1904</b>												
1.....	3.3	4.5	13.7	10.4	6.9	3.8	1.7	0.7	0.4	0.3	0.3	2.8
2.....	3.2	4.4	14.3	9.1	6.6	3.9	1.7	0.7	0.4	0.3	0.4	3.1
3.....	3.2	4.2	14.0	8.5	6.6	4.0	1.6	0.7	0.4	0.3	0.4	3.0
4.....	3.2	4.0	14.1	8.5	6.2	4.4	1.5	0.7	0.4	0.2	0.5	2.6
5.....	3.9	4.1	14.6	8.3	5.8	3.9	1.5	0.6	0.4	0.2	0.5	2.3
6.....	4.3	4.2	14.5	8.9	5.5	3.8	1.5	0.6	0.4	0.2	0.5	1.9
7.....	4.0	4.7	13.9	8.7	5.5	3.7	1.4	0.6	0.3	0.2	0.5	1.8
8.....	3.7	5.5	16.2	8.9	5.4	3.5	1.3	0.6	0.3	0.2	0.5	1.6
9.....	3.9	5.6	17.9	8.0	5.1	3.3	1.3	0.6	0.3	0.2	0.5	1.5
10.....	5.0	5.1	18.1	8.3	5.0	3.0	1.3	0.6	0.3	0.2	0.5	1.9
11.....	11.5	6.5	17.2	9.5	5.1	3.0	1.3	0.6	0.3	0.3	0.4	2.3
12.....	13.7	9.2	13.5	10.4	5.2	2.8	1.3	0.6	0.3	0.6	0.4	3.7
13.....	14.8	11.0	11.8	11.3	5.4	2.7	1.2	0.6	0.3	1.1	0.4	5.5
14.....	12.7	10.6	11.5	11.8	5.6	2.6	1.2	0.6	0.3	0.9	0.3	8.4
15.....	12.1	12.5	12.4	11.3	5.9	2.6	1.1	0.6	0.3	0.6	0.3	10.0
16.....	11.8	18.1	12.6	10.1	5.6	2.6	1.2	0.5	0.3	0.5	0.5	10.4
17.....	11.8	19.6	11.5	8.8	5.1	2.6	1.7	0.5	0.3	0.7	0.7	8.7
18.....	11.5	19.9	11.0	8.0	5.1	2.5	1.5	0.5	0.3	1.3	1.1	8.8
19.....	11.2	15.1	11.3	7.5	5.6	2.6	1.3	0.5	0.3	1.2	2.0	7.7
20.....	10.0	11.5	11.7	7.3	5.7	2.6	1.2	0.5	0.3	0.8	2.2	6.6
21.....	8.8	10.1	12.0	7.3	5.4	2.4	1.1	0.5	0.3	0.7	5.1	5.5
22.....	9.6	10.8	11.8	7.1	5.5	2.3	1.0	0.5	0.3	0.6	4.8	5.0
23.....	11.2	13.7	11.2	6.9	5.5	2.2	1.0	0.5	0.3	0.5	4.5	4.7
24.....	11.0	14.1	10.1	6.3	5.7	2.1	0.9	0.4	0.3	0.5	3.7	5.0
25.....	9.7	14.8	9.0	5.9	5.5	1.9	0.9	0.4	0.3	0.4	3.1	6.7
26.....	8.3	13.7	8.3	5.5	5.0	1.8	0.9	0.4	0.3	0.4	2.7	7.0
27.....	7.3	14.0	7.8	5.3	4.4	1.7	0.8	0.4	0.3	0.3	2.3	5.9
28.....	6.5	14.4	8.7	5.8	4.2	1.7	0.8	0.4	0.3	0.3	2.5	5.1
29.....	5.8	14.3	10.4	6.7	4.0	1.7	0.8	0.4	0.3	0.3	2.9	6.7
30.....	5.2	-----	11.8	7.3	4.0	1.7	0.8	0.5	0.3	0.3	2.7	13.2
31.....	4.8	-----	11.8	-----	4.0	-----	0.8	0.5	-----	0.3	-----	15.7
<b>Means.</b>	<b>8.0</b>	<b>10.4</b>	<b>12.5</b>	<b>8.3</b>	<b>5.4</b>	<b>2.8</b>	<b>1.2</b>	<b>0.5</b>	<b>0.3</b>	<b>0.5</b>	<b>1.6</b>	<b>5.6</b>

## DESCRIPTION OF RIVER GAGES, ETC.

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## COLUMBIA RIVER SYSTEM—WILLAMETTE RIVER, PORTLAND, OREG.

	Jan.	Feb.	Mar.	Apr.*	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	6.2	5.6	7.4	10.9	10.1	15.3	14.7	7.2	3.8	2.7	7.3	5.9
2.....	6.8	5.8	7.3	10.5	10.1	14.9	14.6	7.2	3.5	2.4	8.5	5.9
3.....	7.1	6.5	7.0	10.0	10.1	14.5	14.5	6.9	3.3	2.2	9.5	5.9
4.....	7.4	5.8	6.6	9.4	10.4	14.1	14.3	6.5	3.3	2.3	9.5	5.9
5.....	7.5	6.1	6.9	9.3	10.7	13.8	14.2	6.4	3.3	2.3	8.3	5.7
6.....	7.4	6.5	6.8	9.0	11.2	13.7	14.0	6.2	3.3	2.3	7.4	5.8
7.....	7.2	5.8	6.9	9.3	12.0	13.7	13.7	6.2	3.4	2.3	6.5	5.6
8.....	7.4	5.2	8.5	9.5	12.8	13.7	13.5	6.2	3.9	2.3	6.0	5.6
9.....	6.8	4.9	9.5	8.8	13.6	13.8	13.0	6.4	4.4	2.3	5.7	5.7
10.....	6.5	5.0	9.8	10.0	14.2	13.9	12.6	6.4	4.4	3.3	5.2	5.5
11.....	6.8	5.5	9.5	10.3	14.6	13.8	12.1	6.5	4.3	3.2	4.8	5.3
12.....	7.6	5.4	9.3	10.4	15.1	13.8	11.8	6.6	4.3	2.9	4.5	5.3
13.....	12.0	5.5	9.0	10.3	15.6	13.7	11.5	6.6	4.1	2.9	4.3	5.4
14.....	13.6	5.3	8.5	10.2	16.4	13.4	11.2	6.0	4.2	2.6	3.8	5.8
15.....	14.7	4.9	8.3	10.1	17.1	13.2	11.2	5.5	3.7	2.4	3.4	5.8
16.....	16.1	4.0	8.3	10.3	17.5	13.0	10.5	5.3	3.7	2.3	3.2	6.3
17.....	16.7	3.9	8.4	10.3	17.5	12.9	10.0	4.9	2.5	2.1	3.4	7.3
18.....	16.0	4.7	7.8	10.3	17.4	12.8	9.9	4.4	2.3	2.3	3.8	7.2
19.....	14.8	4.9	8.3	10.3	17.7	13.1	9.5	4.0	2.3	2.4	3.8	7.0
20.....	13.5	5.4	8.0	10.2	17.8	13.5	9.2	3.8	2.7	2.7	3.8	7.8
21.....	12.8	6.2	7.8	10.1	17.6	13.5	8.9	3.7	2.7	3.4	4.0	11.3
22.....	10.4	8.7	7.8	10.0	17.4	13.4	8.7	3.9	2.7	4.0	3.9	12.8
23.....	9.4	9.1	7.8	10.0	17.1	13.3	8.4	3.8	2.7	4.5	4.0	13.0
24.....	8.6	10.4	7.5	10.0	16.8	13.5	8.2	4.2	2.7	4.5	4.1	13.1
25.....	8.0	10.1	7.6	10.1	16.6	13.7	8.4	4.6	3.2	5.0	5.0	12.5
26.....	7.0	8.9	7.8	10.0	16.5	13.9	8.0	4.6	2.7	5.5	6.8	11.5
27.....	6.5	8.0	8.0	10.1	16.6	14.1	7.9	4.3	2.7	5.5	7.6	10.5
28.....	6.0	8.6	8.4	10.2	16.5	14.3	7.8	4.3	2.7	5.5	7.4	9.3
29.....	5.6	.....	8.7	10.2	16.3	14.4	7.6	4.3	2.7	5.4	6.5	8.3
30.....	5.6	.....	9.6	10.1	16.0	14.6	7.4	4.3	2.4	5.3	6.1	7.2
31.....	5.6	.....	10.6	.....	15.7	.....	7.3	4.2	.....	6.3	.....	6.6
<b>Means.</b>	<b>9.3</b>	<b>6.3</b>	<b>8.2</b>	<b>10.0</b>	<b>15.0</b>	<b>13.8</b>	<b>10.8</b>	<b>5.3</b>	<b>3.3</b>	<b>3.4</b>	<b>5.6</b>	<b>7.6</b>
<b>1901</b>												
1.....	5.8	4.0	13.3	6.4	7.5	20.3	13.5	9.2	4.9	4.0	4.0	5.5
2.....	5.9	4.5	14.4	7.3	7.6	20.7	13.3	9.1	5.0	3.8	2.5	6.1
3.....	6.3	4.4	14.0	7.6	7.3	20.8	12.9	9.0	5.0	2.8	1.5	7.0
4.....	6.7	4.0	13.7	7.4	8.4	20.7	12.6	8.8	4.2	1.9	0.8	8.4
5.....	6.7	4.3	13.3	7.8	9.2	20.7	12.5	8.5	3.8	1.6	1.0	8.8
6.....	6.8	4.5	12.2	8.5	9.8	20.7	12.3	8.3	3.6	1.3	1.1	8.5
7.....	6.7	4.4	11.1	8.8	10.3	20.6	12.1	8.0	3.6	1.5	1.5	7.6
8.....	6.8	4.4	10.2	8.5	10.6	20.3	11.8	7.9	3.6	1.6	1.9	7.2
9.....	6.6	4.0	9.3	7.7	11.1	19.9	11.7	7.7	3.9	1.7	2.1	8.2
10.....	5.9	2.9	9.3	7.0	11.6	19.5	11.7	7.5	4.1	2.1	2.0	9.3
11.....	6.4	3.0	9.3	6.3	12.1	19.0	11.6	7.2	4.2	2.2	2.2	9.8
12.....	6.8	2.5	8.9	5.9	12.6	18.4	11.7	7.2	4.4	2.3	2.8	9.5
13.....	12.1	2.3	8.4	5.8	13.0	18.0	11.7	7.4	4.3	2.4	3.3	8.2
14.....	15.7	2.5	7.9	5.7	13.4	17.5	11.5	7.4	4.2	2.7	3.3	6.5
15.....	18.1	3.7	7.4	5.9	14.0	17.1	11.7	7.2	3.8	3.0	3.5	5.4
16.....	19.9	10.9	7.0	6.1	14.8	16.7	11.6	7.1	3.9	3.0	3.8	4.6
17.....	20.8	12.8	6.7	6.5	15.8	16.1	11.6	6.9	3.6	2.6	3.0	4.0
18.....	19.3	14.0	7.1	6.7	16.8	15.8	11.5	6.6	3.2	2.1	2.0	3.2
19.....	16.2	14.6	7.0	7.0	17.6	15.4	11.2	6.1	2.6	1.7	1.7	2.5
20.....	12.4	14.7	7.0	7.3	18.4	15.1	11.0	5.6	2.2	1.3	1.2	1.9
21.....	10.1	12.7	7.1	7.2	18.8	14.8	10.5	5.3	2.6	0.4	1.2	2.0
22.....	8.8	10.6	7.4	7.3	18.9	14.7	10.3	5.1	2.3	0.4	2.7	2.4
23.....	7.9	9.5	7.4	7.3	18.6	14.6	10.0	4.7	2.3	0.7	7.1	4.0
24.....	7.5	9.7	7.1	7.0	18.3	14.5	9.8	4.7	2.4	1.2	8.1	5.2
25.....	7.3	9.7	7.3	6.6	17.9	14.5	9.6	4.7	2.7	1.6	8.0	5.9
26.....	6.5	10.1	7.6	6.5	17.5	14.6	9.4	5.0	3.4	1.9	7.1	6.9
27.....	6.3	11.5	8.0	6.5	17.4	14.3	9.3	4.8	3.7	2.2	6.4	6.5
28.....	5.0	12.7	8.1	6.8	17.6	14.1	9.2	5.0	3.7	3.2	5.6	6.2
29.....	4.5	.....	7.8	7.3	18.2	13.9	9.2	5.1	3.6	4.0	5.5	5.5
30.....	4.1	.....	7.4	7.3	19.0	13.4	9.2	5.2	4.1	3.8	5.1	5.1
31.....	3.8	.....	6.8	.....	19.7	.....	9.3	5.3	.....	3.8	.....	4.7
<b>Means.</b>	<b>9.2</b>	<b>7.5</b>	<b>9.0</b>	<b>7.0</b>	<b>14.3</b>	<b>17.2</b>	<b>11.1</b>	<b>6.7</b>	<b>3.6</b>	<b>2.2</b>	<b>3.4</b>	<b>6.0</b>

## DESCRIPTION OF RIVER GAGES, ETC.

## COLUMBIA RIVER SYSTEM—WILLAMETTE RIVER, PORTLAND, OREG.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	4.3	1.5	10.0	3.5	6.3	20.2	14.3	10.8	4.8	2.5	2.3	8.2
2.....	3.5	0.3	10.0	3.4	6.1	20.5	14.2	10.7	5.2	2.6	3.1	9.5
3.....	3.1	0.5	9.0	3.4	6.3	20.6	14.3	10.3	5.3	2.8	3.7	9.6
4.....	3.4	1.0	8.0	3.6	6.7	<sup>a</sup> 20.7	14.5	10.1	5.0	3.2	3.6	11.3
5.....	3.7	2.0	8.6	3.8	7.0	20.5	15.1	10.0	5.0	3.0	3.2	11.8
6.....	5.0	2.7	9.7	4.1	7.3	20.4	15.6	9.6	4.7	3.5	2.6	12.5
7.....	6.7	4.5	9.6	5.3	7.6	20.0	16.2	9.3	4.5	3.0	3.4	12.7
8.....	9.1	5.9	9.9	7.3	8.0	19.6	16.4	9.0	4.4	1.9	4.4	12.7
9.....	9.9	6.9	9.7	8.6	8.5	19.2	16.4	8.5	3.3	1.1	5.0	12.8
10.....	9.7	8.9	9.1	9.0	8.9	19.0	16.2	8.0	2.7	0.6	5.5	12.8
11.....	8.6	10.2	8.7	8.8	9.5	18.8	16.0	7.6	2.5	0.5	5.0	12.9
12.....	7.5	10.8	8.2	8.4	10.2	19.0	15.7	7.3	2.3	0.5	5.0	12.2
13.....	6.7	10.8	8.1	7.8	10.8	19.2	15.4	7.1	2.5	1.1	5.0	11.3
14.....	5.9	10.1	7.9	7.7	11.3	19.4	15.0	6.8	2.7	1.5	5.4	9.8
15.....	5.2	9.3	7.5	6.5	11.8	19.3	14.7	6.7	2.8	1.7	5.3	8.5
16.....	4.9	9.4	6.9	5.9	12.5	18.9	14.5	6.8	3.0	2.2	6.0	7.7
17.....	4.1	9.5	6.3	5.9	13.4	18.5	14.3	6.5	3.2	2.4	7.8	6.8
18.....	3.7	9.5	6.0	6.4	14.5	18.1	14.0	6.7	3.2	2.5	9.9	5.9
19.....	3.4	9.2	6.0	7.3	15.2	17.8	13.7	6.6	3.5	2.5	10.4	5.5
20.....	3.2	9.0	6.5	8.0	16.0	17.3	13.5	6.6	3.5	3.5	10.0	4.8
21.....	3.3	8.6	6.6	8.5	16.3	16.8	13.3	6.7	3.6	3.8	9.0	4.8
22.....	3.5	8.0	6.4	8.4	16.4	16.4	13.0	6.5	3.5	3.9	7.2	4.7
23.....	3.6	7.7	6.7	8.3	16.6	16.0	12.8	6.4	3.3	2.7	5.6	4.0
24.....	3.8	7.3	6.7	8.0	16.8	15.7	12.5	6.1	2.6	1.7	5.4	4.8
25.....	3.5	7.4	6.2	7.8	16.9	15.5	12.2	5.8	1.8	1.0	4.0	6.8
26.....	3.4	8.3	6.1	7.7	17.1	15.4	11.9	5.4	2.0	0.9	3.8	8.3
27.....	3.2	9.4	5.7	7.8	17.4	15.3	11.6	4.9	2.0	1.1	3.7	8.8
28.....	3.1	9.9	5.2	7.0	17.7	15.2	11.3	4.3	2.1	1.9	3.8	8.6
29.....	2.5	.....	4.9	6.7	18.1	14.8	11.2	5.0	2.2	1.9	4.3	7.8
30.....	3.2	.....	4.3	6.4	18.7	14.6	11.0	4.8	2.5	2.2	4.7	7.0
31.....	2.3	.....	4.2	.....	19.7	.....	10.8	4.9	.....	2.3	.....	7.3
<b>Means.</b>	<b>4.7</b>	<b>7.1</b>	<b>7.4</b>	<b>6.7</b>	<b>12.6</b>	<b>18.1</b>	<b>13.9</b>	<b>7.3</b>	<b>3.3</b>	<b>2.1</b>	<b>5.3</b>	<b>8.8</b>
<b>1903</b>												
1.....	8.9	11.3	3.3	8.5	9.3	13.2	21.0	9.0	4.1	2.7	2.8	5.8
2.....	9.8	9.8	4.3	8.4	9.2	13.7	20.7	8.9	4.0	3.0	3.7	5.7
3.....	11.3	8.2	4.4	8.4	8.8	14.5	20.3	8.5	4.1	3.4	3.8	5.9
4.....	12.9	7.0	4.4	8.3	8.5	16.0	19.8	8.3	4.2	3.9	4.0	6.0
5.....	12.3	6.0	4.5	7.7	8.5	17.6	19.2	8.1	4.5	4.3	4.0	6.0
6.....	11.0	4.9	4.0	7.0	8.7	18.8	18.7	8.0	4.7	6.0	6.4	6.0
7.....	9.7	4.5	3.5	6.9	8.9	19.7	18.2	7.9	4.9	6.1	7.9	5.9
8.....	8.6	5.2	3.8	7.2	9.4	20.2	17.8	7.8	4.8	6.2	7.5	5.3
9.....	7.7	5.7	2.4	7.7	9.9	20.8	17.3	7.8	4.6	6.0	7.1	5.0
10.....	7.1	7.0	2.8	7.6	9.9	21.3	16.9	7.6	4.5	6.1	6.7	4.2
11.....	6.7	7.9	5.0	7.1	10.6	21.9	16.5	7.4	4.6	6.0	8.2	4.0
12.....	6.0	8.1	6.1	7.0	10.7	22.5	16.1	7.1	4.7	5.7	8.6	4.0
13.....	5.5	7.8	6.8	6.9	10.7	22.8	15.5	6.8	4.4	5.3	9.2	3.9
14.....	5.2	7.0	6.6	6.8	10.7	23.2	15.1	6.5	4.0	4.7	9.1	3.5
15.....	5.3	6.1	6.4	6.7	10.8	23.5	14.6	6.1	3.7	4.6	9.2	4.0
16.....	5.2	5.5	6.2	6.4	11.2	23.8	14.0	5.7	3.5	4.5	9.0	5.1
17.....	5.2	5.0	6.0	6.0	12.0	23.9	13.5	5.5	3.5	4.6	8.6	6.6
18.....	5.7	4.5	5.6	5.4	12.4	24.0	13.0	5.5	3.8	4.8	7.5	7.0
19.....	5.2	3.8	5.0	5.1	12.7	24.0	12.5	5.7	3.4	5.0	6.7	6.5
20.....	4.5	2.8	4.5	4.9	12.7	23.9	12.3	5.9	4.1	5.0	6.9	7.2
21.....	5.0	2.4	3.8	4.9	12.5	23.8	12.0	6.0	4.6	4.9	7.4	8.0
22.....	6.2	3.0	3.4	5.2	12.2	23.5	11.8	6.1	4.3	4.8	8.6	8.3
23.....	8.1	3.4	2.9	5.7	12.0	23.3	11.5	6.0	4.5	5.0	9.2	8.0
24.....	10.3	3.1	3.0	6.2	11.9	23.0	11.3	6.1	4.5	4.8	9.2	7.1
25.....	14.9	3.2	3.4	6.7	11.6	22.8	11.1	6.3	4.6	4.3	8.7	6.2
26.....	16.1	3.7	3.6	7.3	11.6	22.5	10.9	6.1	3.8	4.0	8.4	6.4
27.....	18.0	3.8	5.9	7.8	11.6	22.2	10.5	5.8	3.2	3.7	7.6	6.3
28.....	19.2	3.7	5.0	8.4	11.7	21.9	10.2	5.5	3.0	2.8	6.8	4.0
29.....	17.6	.....	6.0	8.8	12.0	21.6	9.9	4.9	2.4	2.8	6.1	3.6
30.....	14.9	.....	7.1	9.1	12.3	21.3	9.6	4.9	2.5	2.7	5.9	3.4
31.....	12.6	.....	7.8	.....	12.9	.....	9.2	4.5	.....	2.8	.....	3.6
<b>Means.</b>	<b>9.6</b>	<b>5.5</b>	<b>4.8</b>	<b>7.0</b>	<b>10.9</b>	<b>21.2</b>	<b>14.5</b>	<b>6.7</b>	<b>4.0</b>	<b>4.5</b>	<b>7.2</b>	<b>5.6</b>

<sup>a</sup> Highest reading, 20.8 at 11 a. m.

## COLUMBIA RIVER SYSTEM—WILLAMETTE RIVER, PORTLAND, OREG.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	3.7	4.0	12.5	10.0	17.5	20.0	16.1	8.7	3.9	2.4	1.0	3.2
2.....	4.0	4.2	12.0	9.9	17.8	19.9	15.9	8.4	3.5	2.4	0.6	2.9
3.....	4.0	4.5	11.5	9.3	17.9	20.0	15.7	8.0	2.9	1.0	0.8	2.7
4.....	4.6	5.5	11.5	9.4	17.7	20.2	15.7	7.7	2.5	0.8	1.3	2.2
5.....	4.6	5.8	11.5	9.3	17.4	20.2	15.6	7.5	2.3	1.1	1.6	2.7
6.....	4.7	5.8	11.5	9.8	17.2	20.1	15.5	7.3	3.1	1.7	1.6	2.7
7.....	4.7	5.2	12.2	10.1	17.1	19.9	15.4	7.1	3.5	2.2	2.5	2.8
8.....	4.6	4.6	12.9	10.0	17.0	19.8	15.4	7.1	3.4	2.5	2.6	3.2
9.....	4.0	3.5	13.5	9.8	16.9	19.9	15.4	7.0	3.9	2.5	2.6	3.3
10.....	5.5	3.5	14.2	9.8	16.6	19.9	15.3	7.0	4.1	3.0	3.0	4.0
11.....	6.5	4.2	15.2	10.3	16.5	20.0	15.3	7.2	4.0	3.5	3.0	3.5
12.....	8.7	6.0	15.2	11.4	16.3	19.9	15.4	7.3	4.1	3.7	3.0	4.4
13.....	10.0	7.3	14.2	12.8	16.3	19.7	15.4	7.7	3.9	3.8	3.0	4.8
14.....	10.2	7.6	13.5	14.2	16.4	19.4	15.3	6.9	4.2	4.0	2.9	4.8
15.....	9.9	8.4	13.0	15.3	16.6	19.1	15.2	6.9	4.0	3.8	3.3	6.8
16.....	9.5	10.9	12.5	16.1	16.8	18.8	14.9	6.8	3.2	4.3	1.2	7.0
17.....	9.9	12.3	11.9	16.8	16.9	18.6	14.6	6.3	3.2	0.9	1.5	6.5
18.....	10.0	13.0	11.4	17.5	17.0	18.5	14.4	5.7	2.6	0.7	1.7	6.0
19.....	9.6	13.0	11.0	17.8	17.2	18.6	14.1	5.4	2.0	1.0	1.5	5.7
20.....	8.9	10.9	11.3	18.0	17.5	18.8	13.7	5.2	2.0	0.9	3.7	5.1
21.....	8.0	9.2	11.5	17.9	17.6	19.0	13.2	5.0	2.2	1.0	5.9	4.8
22.....	7.8	9.2	11.5	17.9	17.8	18.9	12.8	5.0	3.3	1.5	6.2	4.5
23.....	8.0	10.1	11.2	17.8	18.3	18.8	12.3	5.0	3.3	1.5	5.7	5.3
24.....	8.0	10.9	10.6	17.6	18.9	18.6	11.7	5.0	3.3	2.0	4.7	5.3
25.....	7.2	11.1	9.6	17.4	19.8	18.5	11.4	5.0	2.7	1.7	4.5	4.7
26.....	6.0	11.0	8.5	17.0	20.4	18.1	10.8	5.1	3.4	2.5	4.4	5.0
27.....	5.2	11.3	7.8	16.5	20.8	17.8	10.5	5.0	3.1	2.5	4.8	4.5
28.....	4.5	11.6	7.7	16.2	20.8	17.4	10.0	5.0	2.9	2.8	4.7	4.7
29.....	4.0	12.5	8.7	16.3	20.6	16.8	9.7	4.7	2.9	2.9	4.3	6.3
30.....	3.8	-----	9.7	17.0	20.3	16.5	9.3	4.4	2.9	2.9	4.3	9.3
31.....	3.9	-----	10.2	-----	20.1	-----	8.9	4.2	-----	1.9	-----	10.4
Means.	6.6	8.2	11.6	14.0	17.9	19.1	13.7	6.3	3.2	2.2	3.1	4.8

## DELAWARE RIVER SYSTEM—LEHIGH RIVER, MAUCHUNK, PA.

1904												
1.....										4.1	4.4	4.4
2.....										4.1	4.5	4.5
3.....										4.1	4.5	4.4
4.....										4.0	4.4	4.4
5.....										4.0	4.4	4.3
6.....										4.0	4.5	4.4
7.....										4.1	4.5	4.4
8.....										4.1	4.3	4.4
9.....										4.2	4.3	4.6
10.....										4.0	4.3	4.3
11.....										3.9	4.3	4.3
12.....										4.1	4.4	Frozen
13.....										4.7	4.4	-----
14.....										4.6	4.4	-----
15.....										4.4	4.4	-----
16.....										4.4	4.5	-----
17.....										4.2	4.5	-----
18.....										4.2	4.4	-----
19.....										4.2	4.4	-----
20.....										4.3	4.4	-----
21.....										4.6	4.5	-----
22.....										7.1	4.8	-----
23.....									3.9	6.0	4.8	-----
24.....									3.9	5.4	4.8	-----
25.....									4.1	5.0	4.8	-----
26.....									4.1	4.8	4.7	-----
27.....									4.1	4.6	4.7	-----
28.....									4.1	4.5	4.7	-----
29.....									4.0	4.5	4.5	5.6
30.....									4.2	4.4	4.5	5.0
31.....										4.4	-----	4.6
Means.										4.5	4.5	-----

## DESCRIPTION OF RIVER GAGES, ETC.

## DELAWARE RIVER SYSTEM—SCHUYLKILL RIVER, READING, PA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1									0.1	0.1	0.3	0.2
2									0.1	0.0	0.2	0.2
3									0.1	0.0	0.2	0.2
4									0.1	0.0	0.2	0.2
5									0.1	0.0	0.2	0.2
6									0.1	0.0	0.2	0.0
7									0.0	0.0	0.2	0.1
8									0.0	0.0	0.1	0.1
9									0.1	0.0	0.1	0.1
10									0.6	0.0	0.1	0.1
11									0.3	0.0	0.1	0.1
12									0.2	0.1	0.1	0.0
13									0.1	0.4	0.1	0.0
14									0.1	0.3	0.8	0.0
15									1.5	0.2	0.5	0.0
16									1.2	0.1	0.3	0.0
17									0.7	0.1	0.3	0.0
18									0.5	0.1	0.3	0.0
19									0.4	0.1	0.3	0.0
20									0.2	0.0	0.3	0.0
21									0.2	0.5	0.3	-0.1
22									0.2	2.5	0.3	-0.1
23									0.2	1.9	0.3	-0.1
24									0.1	1.3	0.3	0.0
25									0.1	0.8	0.3	0.0
26									0.1	0.7	0.2	0.0
27									0.1	0.5	0.2	0.1
28									0.0	0.3	0.2	0.7
29									0.0	0.3	0.2	0.6
30									0.1	0.3	0.2	0.6
31										0.3		0.6
Means.									0.2	0.4	0.2	0.1

## DELAWARE RIVER SYSTEM—DELAWARE RIVER (EAST BRANCH), HANCOCK, N. Y.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1									3.3	3.9	3.8	4.4
2									3.3	3.6	3.7	4.2
3									3.2	3.6	3.6	4.2
4									3.3	3.5	3.6	4.2
5									3.4	3.4	3.6	4.0
6									3.2	3.3	3.6	3.9
7									3.2	3.3	3.6	4.2
8									3.0	3.2	3.5	4.2
9									3.1	3.2	3.4	3.9
10									3.2	3.2	3.4	3.7
11									3.2	3.2	3.4	3.8
12									3.0	3.2	3.4	4.3
13									2.9	4.0	3.3	4.3
14									2.8	4.0	3.5	4.3
15									3.1	3.8	3.4	4.4
16									4.0	3.7	3.5	4.5
17									3.5	3.6	3.4	4.6
18									3.2	3.5	3.4	4.7
19									3.2	3.5	3.4	4.8
20									3.1	3.4	3.4	4.8
21									3.0	3.5	3.5	4.7
22									3.0	10.3	4.3	4.7
23									3.0	6.6	4.2	4.7
24									3.0	5.6	4.2	4.5
25									3.4	5.1	4.1	5.2
26									3.6	4.8	4.0	4.9
27									3.6	4.5	3.9	4.9
28									3.5	4.3	3.7	6.6
29									3.4	4.1	4.3	6.1
30									3.5	4.0	5.3	5.1
31										3.9		4.8
Means.									3.2	4.1	3.7	4.6



## DESCRIPTION OF RIVER GAGES, ETC

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## DELAWARE RIVER SYSTEM—DELAWARE RIVER (WEST BRANCH), HANCOCK, N. Y.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1									3.4	4.5	3.8	3.8
2									3.3	4.1	3.7	3.6
3									3.5	3.9	3.7	3.3
4									3.5	3.7	3.6	3.3
5									4.2	3.7	3.5	3.1
6									4.0	3.5	3.6	3.1
7									3.6	3.4	3.6	3.3
8									3.5	3.3	3.5	3.1
9									3.3	3.4	3.4	3.6
10									3.3	3.4	3.4	4.2
11									3.3	3.5	3.4	4.7
12									3.3	3.6	3.3	4.8
13									3.1	4.7	3.4	4.6
14									3.1	4.7	3.6	4.5
15									4.4	4.4	3.3	4.4
16									4.0	4.1	3.5	4.8
17									3.7	4.0	3.3	4.2
18									3.4	3.8	3.2	4.8
19									3.5	3.8	3.2	4.4
20									3.3	3.8	3.2	4.4
21									3.1	4.0	3.8	4.4
22									3.0	7.9	4.5	4.2
23									2.9	6.1	4.3	4.5
24									3.1	5.4	4.4	4.5
25									5.1	5.0	4.3	4.9
26									4.3	4.8	4.1	4.4
27									4.4	4.6	4.0	4.6
28									4.4	4.3	3.5	7.1
29									3.9	4.2	3.5	5.9
30									4.5	4.0	3.1	5.1
31										3.9		4.7
Means.									3.6	4.2	3.6	4.3

## DELAWARE RIVER SYSTEM—DELAWARE RIVER, PORT JERVIS, N. Y.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1											1.3	1.1
2											1.2	1.1
3											1.1	1.1
4											1.0	1.1
5											1.0	0.9
6											0.9	0.8
7											0.8	0.6
8											0.9	0.6
9											0.8	0.6
10											0.8	0.5
11											0.7	0.5
12											0.7	0.5
13										0.7	0.7	0.7
14										1.8	0.9	0.9
15										1.7	0.8	0.6
16										1.3	0.8	1.1
17										1.1	0.8	0.8
18										1.0	0.9	0.8
19										0.9	0.8	0.9
20										0.8	0.8	0.9
21										1.0	0.8	0.7
22										8.7	1.6	0.9
23										5.5	1.2	0.7
24										4.1	2.0	0.8
25										3.3	1.8	1.1
26										2.7	1.8	1.6
27										2.5	1.6	1.7
28										2.2	1.3	1.8
29										1.9	1.1	5.5
30										1.5	1.1	3.6
31										1.4		3.0
Means.										2.3	1.1	1.2

## DESCRIPTION OF RIVER GAGES, ETC.

## DELAWARE RIVER SYSTEM—DELAWARE RIVER, PHILLIPSBURG, N. J.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1904</b>												
1									1.2	1.7	2.6	2.2
2									1.1	1.7	2.5	2.2
3									1.1	1.7	2.4	2.2
4									1.2	1.7	2.3	1.8
5									1.0	1.5	2.2	1.8
6									1.0	1.5	2.1	Frozen.
7									1.4	1.5	2.0	
8									1.1	1.4	2.0	
9									0.9	1.3	2.0	
10									1.1	1.3	1.9	
11									1.1	1.3	1.9	
12									1.0	1.3	1.9	
13									0.9	1.6	1.8	
14									0.9	1.8	2.3	
15									2.8	2.7	2.3	
16									3.4	2.4	2.2	
17									3.1	2.1	2.2	
18									2.8	2.8	2.2	
19									2.2	1.6	2.2	
20									1.8	1.6	1.9	
21									1.6	1.8	1.9	
22									1.5	7.6	2.3	
23									1.3	10.2	3.0	
24									1.2	6.9	3.2	
25									1.2	5.5	3.1	
26									1.2	4.6	3.0	
27									1.2	4.0	2.9	
28									1.9	3.6	2.8	2.8
29									1.8	3.3	2.3	Frozen.
30									1.8	3.0	2.3	
31										2.8		
Means.									1.5	2.8	2.3	

## DELAWARE RIVER SYSTEM—DELAWARE RIVER, TRENTON, N. J.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1904</b>												
1										1.5	2.1	1.8
2										1.4	2.0	1.8
3										1.7	2.0	1.7
4										1.6	1.9	1.6
5										1.5	1.7	1.6
6										1.4	1.6	1.5
7										1.3	1.5	1.5
8									1.2	1.3	1.5	1.5
9									0.9	1.2	1.6	1.5
10									0.7	1.2	1.6	1.4
11									1.1	1.1	1.7	1.2
12									0.9	1.6	1.4	2.1
13									0.9	1.5	1.3	2.4
14									0.9	1.4	2.3	3.0
15									6.0	1.4	2.2	2.8
16									3.1	1.3	2.1	2.6
17									2.5	1.5	1.9	2.5
18									2.3	1.7	1.9	2.5
19									2.0	1.6	1.8	3.0
20									1.7	1.5	1.7	3.0
21									1.5	2.1	1.7	2.8
22									1.3	4.5	1.7	2.8
23									1.2	7.0	1.6	2.6
24									1.1	5.0	2.5	2.5
25									1.2	4.0	2.6	2.5
26									1.1	3.5	2.6	2.8
27									1.0	3.1	2.3	2.8
28									1.5	2.5	2.3	4.8
29									1.5	2.0	2.1	4.0
30									1.6	2.5	1.9	6.4
31										2.3		10.7
Means.									1.6	2.2	1.9	2.8

## EDISTO RIVER SYSTEM—EDISTO RIVER, EDISTO, S. C.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	4.2	3.8	5.1	4.7	5.3	3.1	5.0	2.9	1.3	1.9	.....	.....
2.....	4.2	4.1	5.1	4.6	5.1	3.0	4.9	3.2	1.5	1.8	.....	.....
3.....	4.1	4.0	5.2	4.6	5.0	2.9	4.3	4.0	1.8	1.7	.....	.....
4.....	4.1	3.9	5.2	4.5	4.9	2.7	4.2	4.1	1.8	1.4	.....	.....
5.....	4.1	3.6	5.2	4.4	4.9	2.6	4.0	3.9	1.8	1.4	.....	.....
6.....	4.1	3.5	5.2	4.4	4.7	2.7	3.9	3.4	1.8	1.5	.....	.....
7.....	4.1	3.7	5.2	4.4	4.5	3.8	3.8	3.2	1.8	1.6	.....	.....
8.....	4.1	3.9	5.1	4.2	4.4	4.2	3.7	3.1	1.6	1.7	.....	.....
9.....	4.0	4.0	5.0	4.0	4.4	4.4	3.5	3.0	1.5	1.7	.....	.....
10.....	4.0	4.0	5.0	3.9	4.3	4.3	3.2	2.8	1.4	1.9	.....	.....
11.....	4.0	4.0	5.0	3.9	4.1	4.0	3.0	2.7	1.3	2.0	.....	.....
12.....	4.0	4.7	5.0	3.8	3.9	4.0	2.9	2.4	1.3	2.0	.....	.....
13.....	4.1	4.8	5.0	3.8	3.7	4.0	2.6	2.2	1.3	2.1	.....	.....
14.....	4.1	5.2	5.0	3.7	3.4	4.0	2.0	2.1	1.3	2.4	.....	.....
15.....	4.2	5.3	4.9	3.6	3.3	4.1	2.0	2.0	1.3	2.6	.....	.....
16.....	4.2	5.3	4.8	3.5	3.2	4.0	2.0	2.0	1.5	2.7	.....	.....
17.....	4.2	5.3	4.7	3.5	3.1	3.7	2.0	2.0	1.7	2.7	.....	.....
18.....	4.3	5.3	4.7	3.6	3.1	3.4	1.9	1.9	1.8	2.7	.....	.....
19.....	4.3	5.3	4.7	3.7	3.1	3.0	1.7	1.4	1.9	2.9	.....	.....
20.....	4.4	5.4	4.7	3.9	3.2	3.0	1.7	1.0	2.1	2.0	.....	.....
21.....	4.3	5.4	4.7	4.5	3.2	3.5	1.7	1.0	2.2	2.3	.....	.....
22.....	4.2	5.6	4.7	5.2	3.4	3.6	1.7	0.8	2.3	2.7	.....	.....
23.....	4.2	5.6	4.7	6.0	3.9	3.6	1.7	0.7	2.3	2.9	.....	.....
24.....	4.2	5.5	4.7	6.5	4.2	4.0	1.7	0.6	2.3	2.9	.....	.....
25.....	4.2	5.3	4.7	6.6	4.3	4.8	1.6	0.5	2.3	2.7	.....	.....
26.....	4.0	5.2	4.7	6.6	4.4	5.1	1.5	0.5	2.3	2.5	.....	.....
27.....	3.9	5.2	4.8	6.4	4.1	5.3	1.5	0.5	2.3	2.5	.....	.....
28.....	3.9	5.1	4.9	6.2	3.8	5.3	1.5	0.5	2.3	2.4	.....	.....
29.....	3.9	.....	4.9	6.0	3.6	5.1	1.9	0.5	2.1	2.5	.....	.....
30.....	3.9	.....	4.9	5.5	3.5	5.0	2.4	0.8	2.0	2.6	.....	.....
31.....	3.0	.....	4.8	.....	3.2	.....	2.6	1.0	.....	2.8	.....	.....
<b>Means.</b>	<b>4.1</b>	<b>4.7</b>	<b>4.9</b>	<b>4.7</b>	<b>4.0</b>	<b>3.9</b>	<b>2.6</b>	<b>2.0</b>	<b>1.8</b>	<b>2.2</b>	.....	.....
<b>1901</b>												
1.....	4.9	4.3	4.5	5.4	5.0	5.7	4.0	2.5	4.9	5.0	2.7	2.2
2.....	5.2	4.6	4.5	5.4	4.9	5.5	4.0	2.5	4.9	4.8	2.7	2.2
3.....	5.2	4.5	4.4	5.4	4.8	5.4	3.9	2.4	4.9	4.4	2.6	2.2
4.....	5.3	4.5	4.4	5.4	4.7	5.4	3.8	2.3	4.8	4.3	2.6	2.1
5.....	5.4	4.6	4.3	5.5	4.6	5.4	3.7	2.3	4.4	4.1	2.6	2.1
6.....	5.8	4.8	4.2	5.5	4.5	5.4	3.6	2.3	4.4	4.0	2.6	2.1
7.....	5.9	4.8	4.2	5.3	4.4	5.4	3.5	2.3	4.4	3.9	2.6	2.0
8.....	5.4	4.9	4.2	5.2	4.4	5.3	3.3	2.3	4.4	3.7	2.5	2.0
9.....	5.8	4.9	4.1	5.0	4.4	5.2	3.1	2.3	3.9	3.5	2.5	2.0
10.....	5.4	5.1	4.1	5.0	4.4	5.2	3.0	2.3	3.8	3.5	2.5	2.0
11.....	5.3	5.3	4.2	4.9	4.2	5.1	3.0	2.8	3.5	3.5	2.4	1.9
12.....	5.1	5.4	4.2	5.0	4.1	4.9	2.9	4.4	3.4	3.5	2.4	1.9
13.....	5.2	5.5	4.2	5.3	4.0	4.8	2.7	4.4	3.3	3.4	2.3	1.9
14.....	5.1	5.6	4.3	5.2	3.9	4.8	2.7	4.9	3.2	3.3	2.3	1.9
15.....	5.0	5.5	4.4	5.0	3.8	4.9	2.7	4.4	3.1	3.1	2.2	1.9
16.....	4.7	5.4	4.5	4.9	3.6	4.9	2.7	4.4	3.0	3.0	2.2	2.0
17.....	4.5	5.2	4.5	4.8	3.3	4.9	2.7	4.4	3.2	3.0	2.2	2.1
18.....	4.7	5.0	4.5	4.8	3.3	4.8	2.7	4.4	3.5	3.0	2.1	2.2
19.....	4.7	4.9	4.5	5.0	3.3	4.8	2.7	4.4	3.8	3.0	2.1	2.3
20.....	4.7	4.9	4.5	5.4	3.3	4.8	2.9	4.4	4.2	3.0	2.0	2.4
21.....	4.6	4.8	4.5	5.5	3.3	4.7	2.9	4.4	4.8	3.0	2.0	2.3
22.....	4.6	4.7	4.5	5.6	3.5	4.7	2.9	4.4	5.2	3.0	2.1	2.4
23.....	4.5	4.6	4.5	5.7	3.9	4.7	2.9	4.4	5.5	3.0	2.1	2.4
24.....	4.5	4.6	4.2	5.9	4.5	4.7	2.9	4.4	5.7	3.0	2.1	2.4
25.....	4.7	4.6	4.1	5.9	6.0	4.5	2.9	4.5	5.7	3.0	2.1	2.4
26.....	4.7	4.5	4.0	5.6	6.4	4.3	2.9	4.5	5.7	2.9	2.2	2.3
27.....	4.7	4.4	4.0	5.4	6.5	4.1	3.2	4.7	5.7	2.8	2.2	2.3
28.....	4.7	4.5	4.3	5.3	6.4	4.1	3.2	4.8	5.6	2.8	2.2	2.3
29.....	4.5	.....	4.6	5.2	6.3	4.0	2.9	4.8	5.6	2.8	2.1	2.4
30.....	4.4	.....	4.7	5.0	6.1	4.0	2.9	4.8	5.5	2.8	2.0	2.5
31.....	4.3	.....	5.0	.....	6.0	.....	2.9	4.8	.....	2.7	.....	2.5
<b>Means.</b>	<b>5.0</b>	<b>4.9</b>	<b>4.4</b>	<b>5.3</b>	<b>4.6</b>	<b>4.9</b>	<b>3.1</b>	<b>3.8</b>	<b>4.5</b>	<b>3.4</b>	<b>2.3</b>	<b>2.2</b>

## EDISTO RIVER SYSTEM—EDISTO RIVER, EDISTO, S. C.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	2.6	3.5	4.8	4.8	4.2	3.4	3.0	1.2	3.2	2.3	.....	.....
2.....	2.7	3.4	5.0	5.0	4.2	3.4	3.0	1.4	3.0	2.3	.....	.....
3.....	3.2	3.2	5.3	5.1	4.0	3.4	2.9	1.6	3.0	2.3	.....	.....
4.....	3.3	4.0	5.6	5.1	3.8	3.4	2.9	1.8	2.9	2.3	.....	.....
5.....	3.5	4.2	5.8	5.0	3.7	3.4	2.9	2.0	2.8	2.3	.....	.....
6.....	3.6	4.6	5.7	5.0	3.5	3.4	2.8	2.0	2.7	2.3	.....	.....
7.....	3.7	4.6	5.0	5.0	3.3	3.4	2.8	2.0	2.5	2.4	.....	.....
8.....	3.7	5.1	5.3	4.9	3.1	3.4	2.8	2.0	2.5	2.7	.....	.....
9.....	3.6	5.3	5.0	4.9	3.1	3.4	2.8	2.0	2.4	2.8	.....	.....
10.....	3.6	5.2	4.8	4.7	3.0	3.4	2.8	2.0	2.3	2.9	.....	.....
11.....	3.5	5.2	4.5	4.5	3.0	3.4	2.7	2.0	2.3	3.0	.....	.....
12.....	3.5	5.1	4.3	4.4	3.0	3.2	2.7	2.0	2.3	3.4	.....	.....
13.....	3.4	5.1	4.2	4.5	3.0	3.1	2.7	2.0	2.7	3.7	.....	.....
14.....	3.5	5.0	4.1	4.5	2.9	3.0	2.8	2.0	2.7	3.8	.....	.....
15.....	3.3	5.0	3.9	4.5	2.9	3.0	2.8	2.2	2.8	3.9	.....	.....
16.....	3.2	5.0	3.9	4.5	3.0	3.0	2.8	2.4	2.9	3.9	.....	.....
17.....	3.1	5.1	3.9	5.0	3.0	3.1	2.9	2.8	3.0	3.9	.....	.....
18.....	3.0	5.2	4.0	5.0	3.0	3.1	2.9	2.9	3.0	3.9	.....	.....
19.....	3.0	5.4	4.2	5.5	3.0	3.2	2.9	2.9	2.8	3.9	.....	.....
20.....	3.0	5.3	4.3	5.7	3.0	3.9	2.9	3.0	2.7	4.0	.....	.....
21.....	3.1	5.2	4.3	5.9	3.0	4.8	2.9	3.4	2.5	4.0	.....	.....
22.....	3.2	5.2	4.2	5.9	3.1	4.9	2.9	3.8	2.4	4.0	.....	.....
23.....	3.4	5.2	4.1	5.8	3.1	4.9	2.8	3.9	2.4	3.9	.....	.....
24.....	3.5	5.1	4.0	5.6	3.2	4.9	2.8	4.0	2.4	3.9	.....	.....
25.....	3.5	5.1	4.0	5.3	3.2	4.9	2.8	4.2	2.4	3.8	.....	.....
26.....	3.4	5.0	3.9	5.0	3.4	4.8	2.8	4.2	2.4	3.8	.....	.....
27.....	3.4	4.9	3.8	4.9	3.4	4.7	2.0	4.1	2.4	3.7	.....	.....
28.....	3.5	4.7	3.7	4.8	3.4	3.5	1.0	4.0	2.4	3.7	.....	.....
29.....	3.5	.....	3.8	4.5	3.4	3.3	1.0	4.0	2.4	3.7	.....	.....
30.....	3.4	.....	3.8	4.4	3.4	3.0	1.2	3.9	2.4	3.7	.....	.....
31.....	3.4	.....	3.9	.....	3.4	.....	1.2	3.5	.....	3.5	.....	.....
<b>Means.</b>	<b>3.3</b>	<b>4.8</b>	<b>4.4</b>	<b>5.0</b>	<b>3.3</b>	<b>3.7</b>	<b>2.6</b>	<b>2.7</b>	<b>2.6</b>	<b>3.3</b>	.....	.....
<b>1903</b>												
1.....	4.0	4.6	4.5	5.3	4.7	3.3	4.8	3.0	5.0	4.8	3.0	.....
2.....	3.9	4.5	4.5	5.5	4.6	3.3	4.8	3.5	5.0	4.6	3.0	.....
3.....	3.9	4.3	4.5	5.5	4.6	4.8	4.7	3.9	4.8	4.6	2.9	.....
4.....	3.8	4.2	4.4	5.1	4.5	4.9	4.5	4.2	4.8	4.6	2.9	.....
5.....	3.8	4.2	4.6	5.0	4.4	4.7	4.1	4.8	4.7	4.0	3.0	.....
6.....	3.7	4.1	4.7	5.0	4.5	5.3	4.1	4.9	4.7	3.7	3.0	.....
7.....	3.7	4.1	4.7	4.8	4.4	5.3	4.0	4.9	4.7	3.6	3.1	.....
8.....	4.2	4.1	4.6	4.8	4.9	5.2	4.2	4.0	4.6	3.6	3.1	.....
9.....	4.1	4.3	4.6	4.6	5.0	5.0	4.4	4.0	4.6	3.6	3.2	.....
10.....	4.1	4.5	4.5	4.6	4.6	4.9	4.5	4.4	4.6	3.6	3.1	.....
11.....	4.2	4.8	4.5	4.5	4.2	5.0	4.7	4.6	4.4	3.7	3.0	.....
12.....	4.5	5.3	4.3	4.5	4.0	5.1	4.8	4.7	4.0	3.7	3.0	.....
13.....	4.5	5.6	4.0	4.4	4.0	5.1	5.2	4.8	3.8	3.7	3.0	.....
14.....	4.6	5.6	4.0	4.4	4.0	5.1	5.3	5.0	3.6	3.9	2.9	.....
15.....	4.6	5.8	4.0	4.4	3.9	5.0	5.3	5.5	3.6	3.0	3.0	.....
16.....	4.6	5.8	3.9	4.4	3.9	4.8	5.3	5.7	3.4	3.0	3.0	.....
17.....	4.5	5.8	3.6	4.4	3.8	4.7	5.0	5.7	3.0	3.0	3.2	.....
18.....	4.3	5.4	4.0	4.4	3.8	4.5	5.0	5.4	3.0	3.0	3.2	.....
19.....	4.3	5.4	4.0	4.4	3.8	4.5	4.9	5.0	3.2	3.0	3.3	.....
20.....	4.3	5.4	4.0	4.3	3.8	4.4	4.8	5.0	3.4	3.0	3.5	.....
21.....	4.3	5.3	3.9	4.3	3.8	4.4	4.8	5.3	3.7	3.2	3.6	.....
22.....	4.2	5.3	3.9	4.4	3.7	4.2	4.7	5.5	4.0	3.3	3.6	.....
23.....	4.2	5.2	4.1	4.4	3.7	4.0	4.7	5.5	4.0	3.3	3.6	.....
24.....	4.3	5.0	4.3	4.4	3.7	4.0	4.2	5.7	4.0	3.4	3.5	.....
25.....	4.3	5.0	4.5	4.4	3.6	4.0	3.8	5.7	4.6	3.5	3.4	.....
26.....	4.2	4.9	4.5	4.4	3.5	3.9	3.7	5.9	4.6	3.6	3.2	.....
27.....	4.2	4.8	4.6	4.4	3.5	3.9	3.5	5.8	4.6	3.6	3.1	.....
28.....	4.3	4.7	4.6	4.2	3.6	3.9	2.7	5.7	4.6	3.4	3.0	.....
29.....	4.4	.....	4.7	4.9	3.5	3.8	2.6	5.5	4.8	3.4	3.0	.....
30.....	4.5	.....	4.8	5.0	3.4	3.8	2.6	5.2	4.8	3.4	3.0	.....
31.....	4.6	.....	4.9	.....	3.4	.....	2.5	5.0	.....	3.0	.....	.....
<b>Means.</b>	<b>4.2</b>	<b>4.9</b>	<b>4.3</b>	<b>4.6</b>	<b>4.0</b>	<b>4.5</b>	<b>4.3</b>	<b>5.0</b>	<b>4.2</b>	<b>3.6</b>	<b>3.1</b>	.....

## EDISTO RIVER SYSTEM—EDISTO RIVER, EDISTO, S. C.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1						1.2	1.1	1.8	2.9	1.1	1.3	1.9
2						1.0	1.0	1.9	3.2	1.1	1.4	1.9
3						1.0	1.4	2.1	2.9	1.1	1.5	1.9
4						1.0	1.5	2.2	2.9	1.0	1.5	2.1
5						1.3	1.5	2.2	2.9	0.9	1.5	2.1
6						1.3	1.4	2.2	2.9	0.9	1.5	2.2
7						1.3	1.2	3.3	2.9	0.9	1.5	2.3
8						1.4	1.1	3.5	3.4	0.9	1.5	2.4
9						1.4	1.0	3.9	3.6	1.1	1.7	2.6
10						1.5	0.9	4.1	4.1	1.2	1.9	2.7
11						1.7	1.0	4.5	4.4	1.3	2.0	2.8
12						1.6	1.0	4.5	4.6	1.2	2.0	2.9
13						1.6	1.2	4.8	4.6	1.2	2.0	2.9
14						1.6	1.2	5.0	4.6	1.2	2.1	2.9
15						1.6	1.3	5.1	4.1	1.2	2.1	2.9
16						1.6	1.4	4.7	3.9	1.1	2.1	3.1
17						1.5	1.0	4.7	3.5	1.0	2.1	3.1
18						1.4	1.0	4.7	3.1	0.9	2.1	3.1
19						1.3	1.0	4.7	2.8	0.8	2.3	2.8
20						1.2	1.0	4.4	2.4	0.8	2.4	2.7
21						1.0	0.9	4.2	1.9	0.8	2.5	2.6
22						1.0	1.0	4.0	1.7	0.8	2.6	2.6
23						1.0	1.1	3.6	1.4	0.8	2.9	2.6
24						1.0	1.1	3.6	1.4	0.8	2.9	2.8
25						1.0	1.1	3.4	1.4	0.8	2.9	2.8
26						1.0	1.3	3.1	1.4	0.9	2.9	2.8
27						1.0	1.3	2.8	1.1	1.0	2.6	2.8
28						1.0	1.4	2.8	1.0	1.1	2.3	3.0
29						1.0	1.3	2.8	1.0	1.3	2.1	3.1
30						1.1	1.4	2.4	1.0	1.5	1.9	3.1
31							1.7	2.6		1.2		3.2
Means.						1.3	1.2	3.5	2.8	1.0	2.1	2.7

## HUDSON RIVER SYSTEM—WEST CANADA CREEK, TRENTON FALLS, N. Y.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1				3.6	5.8	3.2	3.0	2.5	2.2	4.8	3.0	2.3
2				3.9	6.3	3.0	3.0	2.5	2.0	3.9	3.0	2.3
3				4.1	5.8	3.0	3.2	2.5	2.1	3.7	2.9	2.2
4				3.8	5.9	2.9	3.1	2.5	3.7	3.4	2.8	2.2
5				3.7	5.8	2.8	2.9	2.5	3.5	3.1	2.8	2.2
6				3.7		3.2	3.7	3.4	3.3	3.2	2.7	2.2
7				3.9		3.5	3.3	3.0	3.0	3.2	2.7	2.2
8				4.3		3.0	3.0	2.7	2.9	3.0	2.6	2.2
9				5.0		3.5	2.8	2.5	2.7	3.0	2.5	2.2
10				6.0		5.0	2.7	2.6	2.6	3.2	2.4	2.2
11				5.9	4.0	4.2	2.8	2.5	2.6	4.5	2.4	2.2
12				5.0	3.5	3.6	2.7	2.3	2.5	4.9	2.3	2.2
13				4.5	3.2	3.2	2.7	2.3	2.4	4.1	2.3	2.3
14				4.2	3.0	3.2	2.7	2.3	2.3	3.8	2.4	2.2
15				3.9	2.9	2.9	2.7	2.3	2.5	3.5	2.4	2.2
16				3.7	3.3	2.9	2.6	2.4	2.7	3.1	2.4	2.2
17				3.4	3.9	2.8	2.5	2.1	2.8	3.0	2.3	2.2
18				3.3	3.7	2.7	2.5	2.2	2.5	2.8	2.3	2.2
19				3.4	3.5	2.6	2.6	2.1	2.6	2.7	2.3	2.2
20				3.4	3.5	2.5	2.5	2.1	2.7	2.6	2.3	2.3
21				3.3	4.0	2.5	2.5	5.9	3.1	3.3	2.4	2.2
22				3.2	3.7	2.7	2.5	4.5	3.4	5.4	2.3	2.3
23				3.9	3.4	3.0	2.4	4.5	3.0	5.0	2.4	2.3
24				4.8	3.4	3.0	2.3	4.0	2.8	4.0	2.4	2.2
25				5.8	3.5	2.7	2.3	3.5	4.7	3.7	2.4	2.2
26				5.3	3.4	2.6	2.4	3.0	4.8	3.4	2.4	2.3
27				5.5	3.8	2.5	2.3	2.8	4.0	3.5	2.3	2.6
28				5.9	4.0	2.5	2.6	2.6	3.6	3.4	2.3	3.4
29				5.9	3.6	2.4	2.8	2.5	3.3	3.2	2.2	3.7
30					3.3	2.7	3.0	2.3	5.4	3.1	2.2	3.4
31					3.3		2.7	2.3		3.1		3.3
Means.				4.4	4.0	3.0	2.7	2.8	3.1	3.6	2.5	2.4

## DESCRIPTION OF RIVER GAGES, ETC.

## HUDSON RIVER SYSTEM—SACONDAGA RIVER, NORTHVILLE, N. Y.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1												-1.5
2												-1.5
3												-1.5
4												-1.5
5												-1.6
6												-1.6
7												-1.7
8												-1.7
9												-1.7
10												-1.7
11												-1.7
12												-1.7
13												-1.8
14												-1.8
15												-1.9
16												-1.9
17												-1.9
18												-1.9
19												-2.0
20												-2.0
21												-2.0
22												-2.0
23												-2.0
24												-2.0
25												-2.0
26												-2.0
27												-2.0
28												-1.3
29												-1.0
30												-1.0
31												-0.9
Means.												-1.7

## HUDSON RIVER SYSTEM—SCHOHARIE RIVER, SCHOHARIE JUNCTION, N. Y.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1					2.5	0.0	-2.6	-7.3	-7.0	-8.6	-0.2	0.3
2					2.1	-0.2	-1.6	-7.6	-7.0	-4.8	-0.2	-0.1
3					1.7	-0.3	-1.9	-7.8	-7.0	-5.1	-0.3	-0.1
4				1.5	1.5	-0.5	-2.0	-7.8	-7.0	-6.1	-0.4	0.3
5				1.5	1.1	0.0	-2.4	-7.8	-7.0	-7.1	-0.4	-0.1
6				1.5	1.0	-0.4	-2.6	-8.0	-7.0	-7.4	-0.5	-0.1
7				1.5	0.8	-0.6	-2.9	-8.0	-7.0	-7.5	-0.5	-0.1
8				1.5	0.6	-0.7	-3.0	-8.0	-7.0	-7.6	-0.5	-0.1
9				1.7	0.4	1.0	-3.2	-8.0	-7.1	-7.8	-0.6	-0.1
10				2.0	0.2	2.0	-3.6	-8.1	-7.1	-8.0	-0.6	-0.1
11				2.2	0.1	2.5	-3.8	-8.0	-7.1	-8.0	-0.6	0.1
12				1.9	0.0	1.5	-4.0	-8.0	-7.1	-8.0	-0.6	0.3
13				1.9	0.0	0.2	-4.2	-8.0	-7.1	-7.6	-0.6	0.2
14				1.7	-0.1	0.1	-4.5	-8.0	-8.0	-0.6	-0.6	0.3
15				1.1	-0.1	0.0	-4.8	-8.0	-8.0	-1.0	-0.6	0.3
16				1.0	2.1	0.0	-5.0	-7.5	0.0	-3.0	-0.6	0.4
17				1.0	0.7	-0.1	-5.6	-7.3	-3.0	-3.2	-0.6	0.4
18				1.3	0.2	-0.2	-5.9	-7.0	-5.0	-5.6	-0.6	0.4
19				1.6	0.1	-0.4	-6.3	-6.8	-7.0	-6.8	-0.6	0.4
20				1.6	0.8	-0.6	-6.5	-6.5	-8.0	-7.0	-0.5	0.3
21				1.3	0.3	-1.0	-6.7	-6.0	-8.0	-7.1	1.4	0.3
22				0.6	0.1	-1.1	-6.8	-1.0	-8.0	5.2	1.2	0.1
23				0.5	0.0	-1.1	-7.0	-4.0	-8.0	2.5	1.2	1.0
24				0.5	0.0	-1.3	-7.1	-5.8	-8.1	1.1	1.1	1.1
25				0.5	-0.2	-1.5	-7.1	-6.0	-8.1	1.0	1.0	1.0
26				0.5	0.0	-1.8	-7.3	-6.3	-8.1	0.8	0.9	1.5
27				0.5	0.0	-1.9	-7.4	-6.4	-8.1	0.5	0.3	0.7
28				2.7	0.0	-1.9	-7.5	-6.7	-8.1	0.4	0.2	10.3
29				5.5	-0.3	-2.0	-6.8	-6.8	-8.1	0.3	0.2	6.0
30				3.7	-0.3	-2.4	-1.0	-7.0	-8.1	0.1	0.2	3.2
31					0.0		-4.0	-7.1		0.2		3.0
Means.				1.6	0.5	-0.5	-4.7	-7.0	-7.0	-3.7	-0.1	1.0

## HUDSON RIVER SYSTEM—SCHOHARIE RIVER, FORT HUNTER, N. Y.

	Mar.	Apr.	May.	June.	July.	Dec.		Nov.	Dec.
1903							1904		
1		5.1	0.9	0.0	1.7	0.0	1		1.4
2		4.8	0.8	0.0	2.0	0.0	2		1.4
3		4.1	0.8	0.0	1.9	0.2	3		1.4
4		4.8	0.8	0.0	1.2	0.2	4		1.4
5		4.7	0.8	0.0	0.9	0.2	5		1.4
6		4.7	1.0	0.0	1.5	0.2	6		1.3
7		3.8	1.0	0.0	1.5	0.2	7		1.2
8		4.4	0.9	0.0	1.5	0.2	8		1.2
9		4.5	0.9	0.0	1.0	0.2	9		1.2
10		4.4	0.8	0.0	0.9	0.2	10		1.2
11		4.6	0.8	0.2	0.8	0.2	11		1.2
12		3.4	0.8	0.3	0.7	0.2	12		1.2
13		3.3	0.8	4.6	0.7	0.2	13		1.2
14		2.8	0.7	2.8	0.7	0.2	14		1.4
15		2.4	0.7	2.5	0.5	0.2	15		1.5
16		3.1	0.7	2.5	0.4	0.2	16		1.5
17		2.8	0.6	2.6	0.3	0.2	17		1.5
18	4.6	2.5	0.6	2.6	0.3	0.2	18	1.2	1.5
19	4.5	2.4	0.5	2.5	0.3	0.2	19	1.1	1.5
20	4.6	2.1	0.5	1.6	0.3	0.2	20	1.2	1.5
21	4.9	1.9	0.4	2.8	0.3	5.0	21	1.2	1.5
22	5.9	1.8	0.4	5.9	3.8	5.0	22	2.1	1.5
23	5.9	1.7	0.3	4.5	2.5	5.0	23	1.8	1.5
24	9.9	1.6	0.2	5.2	2.5	4.0	24	1.7	1.8
25	8.1	1.4	0.2	4.5	2.0	3.0	25	1.7	2.6
26	7.5	1.3	0.1	3.8	1.2	2.0	26	1.7	2.2
27	5.1	1.2	0.0	3.2	1.0	2.0	27	1.5	2.0
28	4.2	1.1	0.0	2.3	0.9	2.0	28	1.3	4.0
29	3.9	1.1	0.0	1.8	0.8	2.0	29	1.4	3.0
30	3.7	0.9	0.0	1.7	0.8	2.0	30	1.4	2.0
31	5.1		0.0		0.8	2.0	31		2.1
Means		3.0	0.5	1.9	1.2	1.2	Mean		1.7

## HUDSON RIVER SYSTEM—MOHAWK RIVER, UTICA, N. Y.

	Mar.	Apr.	Dec.		Jan.	Feb.	Mar.	May.
1903				1904				
1	11.0	7.0	0.5	1		1.8	2.6	3.7
2	9.1	6.1	0.8	2	0.9	1.7	1.7	2.9
3	8.2	3.8	0.6	3	1.3	1.7	2.1	1.6
4	7.4	5.3	1.0	4	1.3	1.6	2.8	0.8
5	6.8	6.2	1.0	5	1.4	1.7	5.8	0.3
6	6.5	4.5		6	1.5	1.6	5.4	1.0
7	6.5	2.7	1.0	7	1.5	1.9	5.5	1.5
8	6.7	6.6	1.2	8	1.5	7.4	7.1	
9	9.8	7.1	1.2	9	1.3	8.1	8.6	2.0
10	9.2	6.4	1.6	10	1.3	8.5	9.2	1.9
11	9.5	6.3	1.6	11	1.3	8.2	9.0	2.1
12	9.8	2.2	1.4	12	1.4	7.3	8.5	2.3
13	8.2			13	1.5	5.7	7.6	2.4
14	7.6	1.6	1.3	14	1.5	4.0	5.0	2.3
15	7.0	2.3	1.3	15	1.3	3.2	4.2	
16	6.8	2.5	1.0	16	1.6	1.8	3.0	3.6
17	6.8	2.4	1.1	17	1.6	1.7	2.6	1.5
18	6.8	2.1	1.1	18	1.5	1.7	2.0	0.2
19	6.8		1.2	19	1.5	1.6	1.7	2.0
20	6.8	1.2		20	1.3	1.6	1.8	4.0
21	6.7	0.9	2.2	21	1.3	1.6	3.8	2.1
22	6.6	1.0	3.7	22	1.5	1.7	3.8	0.3
23	7.0	0.2	2.7	23	2.0	2.6	7.2	0.0
24	9.4	-0.2	2.6	24	5.0	2.8	9.3	1.7
25	7.4	-0.2	3.2	25	3.0	2.4	10.0	1.8
26	7.2	0.6	3.2	26	2.4	2.4		
27	6.2	0.3		27	1.6	2.5		
28	5.3	-0.3	0.2	28	1.8	2.5	10.2	
29	5.6	-0.5	0.4	29	2.0	2.6	8.4	
30	4.2	-0.8	0.5	30	2.0		8.0	
31	5.5		0.7	31	2.0		8.0	1.2
Means	7.4	2.6	1.4	Means	1.7	3.2	5.7	1.8

## DESCRIPTION OF RIVER GAGES, ETC.

## HUDSON RIVER SYSTEM—MOHAWK RIVER, LITTLE FALLS, N. Y.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....			7.3	5.2								1.6
2.....			7.7	5.0								1.4
3.....			6.7	4.2								1.5
4.....			5.7	5.2								1.4
5.....			4.8	5.5								1.5
6.....			4.2	4.3								1.6
7.....			4.3	3.8								1.4
8.....			4.7	5.1								1.4
9.....			7.3	5.0								1.4
10.....			8.3	5.3								1.4
11.....			10.8	5.0								1.3
12.....			10.1	4.7								1.2
13.....			9.0	3.4								1.4
14.....			7.0	3.3								1.3
15.....			6.1	3.5								1.5
16.....			5.4	3.2								1.4
17.....			5.2	3.0								1.4
18.....			5.0	3.1								1.3
19.....			5.2	2.8								1.2
20.....			5.7	2.2								1.4
21.....		1.7	6.2	2.5								2.3
22.....		2.2	7.2	2.2								2.7
23.....		2.0	6.1	1.8								2.8
24.....		2.0	9.0	1.5								2.7
25.....		2.0	9.0	1.4								2.9
26.....		1.8	6.5	1.9								2.7
27.....		1.8	5.3	1.5								2.2
28.....		2.0	4.6	1.4								1.9
29.....			4.7	1.1								1.8
30.....			4.1	1.1								1.7
31.....			5.5									1.6
<b>Means.</b>			6.4	3.3								1.7
<b>1904</b>												
1.....	1.6	1.7	4.0		6.0	1.8					3.4	3.4
2.....	1.6	1.5	3.9		5.8	1.4					3.4	3.3
3.....	1.5	1.5	4.1		5.2	1.4						3.3
4.....	1.4	1.4	4.4		5.1	1.3						3.4
5.....	1.3	1.4	4.6		4.8	2.0						3.3
6.....	1.2		4.7		4.6	2.6						3.3
7.....	1.4		4.6		4.3	2.6					3.8	3.2
8.....	1.4		5.0		3.7	1.9					3.7	3.2
9.....	1.4		5.6		3.1	4.3						3.1
10.....	1.4		5.5		2.3	4.9						3.1
11.....	1.3		5.5		1.9	3.7						3.2
12.....	1.3		5.5		2.0	2.5						3.2
13.....	1.3		5.2		1.6	1.8						3.2
14.....	1.4		4.9		1.7	1.9						3.2
15.....	1.2		4.5		2.0	1.3						3.2
16.....	1.4	4.2	4.4		3.6	1.5						3.2
17.....	1.3	4.0	4.2		3.4	1.2						3.2
18.....	1.3	4.0	4.2		2.3	1.2					3.3	3.2
19.....	1.2	3.9	4.1		1.9	1.4					3.2	3.2
20.....	1.2	3.8	4.1		2.4	1.0					3.3	3.2
21.....	1.2	3.8	4.2		3.4	1.0					3.3	3.2
22.....	1.2	3.8	4.2		2.7	1.0					3.3	3.2
23.....	1.4	4.1	4.7		1.8	1.1					3.3	3.3
24.....	2.2	4.5	5.7		1.8	1.3					3.4	3.5
25.....	2.5	4.5	6.3		1.8	1.2					3.4	3.5
26.....	2.5	4.2	9.5		2.0	1.4					3.4	3.4
27.....	2.3	4.1	9.6		2.7	0.9					3.4	3.6
28.....	1.9	4.0	8.4		3.4	0.7					3.2	4.8
29.....	1.9	4.0	6.7		2.7	0.7					3.3	4.7
30.....	1.8		6.0		2.0	0.7					3.5	4.7
31.....			6.0		2.0							4.7
<b>Means.</b>	1.6	3.4	5.3		3.0	1.7					3.4	3.5



## DESCRIPTION OF RIVER GAGES, ETC.

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## HUDSON RIVER SYSTEM—MOHAWK RIVER, TRIBESHILL, N. Y.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1904</b>												
1.....	2.0	7.0	17.3	6.0	3.0	-1.1	-2.7	-2.4	-1.8	1.2	0.9	1.2
2.....	2.0	7.0	17.3	9.5	2.8	-1.3	-2.3	-2.2	-1.6	1.6	0.5	1.0
3.....	2.0	7.0	17.3	4.5	2.0	-1.6	-2.4	-2.3	-1.4	-0.2	0.5	1.0
4.....	2.0	7.0	17.7	4.0	1.9	-1.8	-2.3	-2.4	-1.0	-0.8	-0.1	1.0
5.....	2.0	7.1	17.1	2.8	1.5	-1.9	-2.4	-2.6	-1.0	-1.0	0.9	1.0
6.....	2.0	7.3	17.1	3.0	1.1	-1.4	-2.6	-2.6	-1.0	-0.8	0.5	1.0
7.....	2.0	7.3	17.4	3.6	0.7	-1.3	-2.6	-2.6	-1.0	-1.1	0.6	1.0
8.....	2.0	19.3	17.9	3.8	0.5	-1.1	-2.6	-2.6	-1.4	-1.8	0.5	1.0
9.....	2.0	17.3	24.0	2.8	0.4	-0.8	-2.6	-2.6	-1.3	-1.9	0.5	1.0
10.....	2.0	17.3	22.0	3.0	-0.4	2.0	-2.4	-2.7	-1.3	-1.5	0.5	1.0
11.....	2.0	17.3	21.0	3.2	-0.6	1.2	-2.4	-2.7	-1.5	-0.8	0.4	1.0
12.....	2.0	17.3	20.0	3.1	-1.0	-0.5	-2.5	-2.7	-1.8	1.0	0.4	0.7
13.....	2.0	17.3	19.6	2.0	-1.0	-0.9	-2.6	-2.7	-2.2	0.9	0.3	0.7
14.....	2.0	17.3	17.8	1.0	-1.4	-1.2	-2.6	-2.6	-2.6	0.2	0.5	0.7
15.....	2.0	17.3	17.8	1.7	-1.0	-1.3	-2.6	-2.6	-2.5	-0.5	0.5	0.7
16.....	2.0	17.3	17.8	1.9	-0.5	-1.5	-2.7	-2.7	-2.2	-1.0	0.3	0.7
17.....	5.0	17.1	17.2	2.0	-0.2	-1.6	-2.7	-2.7	-2.3	-1.1	0.5	0.7
18.....	5.0	17.1	16.1	1.7	-0.2	-1.6	-2.6	-2.4	-2.4	-1.3	0.5	0.7
19.....	5.0	17.1	15.6	1.6	-0.4	-2.0	-2.7	-2.5	-2.4	-1.3	0.3	0.7
20.....	5.0	17.1	15.6	1.7	-0.3	-2.2	-2.7	-2.4	-2.4	-1.3	0.3	0.7
21.....	5.0	17.1	15.9	-0.4	-0.4	-2.4	-2.7	1.0	-2.5	-1.2	0.5	1.0
22.....	5.0	17.1	17.0	-0.4	-0.6	-2.3	-2.7	0.9	-1.8	9.5	1.5	1.0
23.....	5.0	17.1	18.3	-0.4	-0.8	-2.4	-2.6	1.7	-1.4	5.0	1.0	1.0
24.....	9.0	17.1	18.6	-0.4	-0.9	-2.6	-2.5	1.0	-1.0	4.0	1.0	1.1
25.....	9.0	17.1	18.3	0.6	-0.9	-2.6	-2.5	-0.4	-1.0	-0.2	1.0	1.0
26.....	7.0	17.1	18.9	1.6	-0.9	-2.6	-2.5	-0.4	0.0	-0.3	0.8	1.0
27.....	7.0	17.1	18.0	2.0	-0.9	-2.6	-2.5	-0.5	0.2	-0.5	0.8	1.0
28.....	7.0	17.1	15.6	2.9	-0.4	-2.6	-2.6	-0.7	0.2	-0.8	0.8	5.0
29.....	7.0	17.6	15.5	3.6	-0.5	-2.6	-2.4	-0.8	-0.8	-0.9	0.8	4.5
30.....	7.0		15.5	3.2	-1.0	-2.5	-2.5	-1.0	-0.4	-1.0	1.0	3.5
31.....	7.0		6.7		-1.0		-2.4	-1.0		-1.3		3.0
<b>Means.</b>	4.1	14.8	17.5	2.5	0.0	-1.6	-2.5	-1.7	-1.5	0.0	0.6	1.3

## HUDSON RIVER SYSTEM—MOHAWK RIVER, SCHENECTADY, N. Y.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....			15.5	6.9								1.3
2.....			8.0	5.8								1.3
3.....			7.0	4.9								1.3
4.....			6.1	5.2								1.3
5.....			5.2	5.5								1.3
6.....			4.8	4.8								1.3
7.....			4.5	4.0								1.3
8.....			5.0	4.8								1.3
9.....			10.5	4.8								1.3
10.....			10.7	4.8								1.3
11.....			12.5	4.5								1.3
12.....			13.1	4.3								1.3
13.....			11.0	3.8								1.3
14.....			9.1	3.5								1.3
15.....			6.8	3.4								1.3
16.....			6.0	3.6								1.3
17.....			5.7	3.6								1.3
18.....			5.4	2.5								1.3
19.....			4.9	2.0								1.3
20.....			5.0	1.8								1.3
21.....			5.5	1.8								1.3
22.....			7.5	1.5								1.3
23.....			8.1	1.2								1.8
24.....			14.0	1.0								4.2
25.....			11.2	1.0								3.4
26.....			9.0	1.0								3.3
27.....			6.2	1.0								3.3
28.....			5.3	1.0								3.0
29.....			4.9	0.9								2.5
30.....			4.5	0.9								2.5
31.....			5.6									2.0
<b>Means.</b>			7.7	3.2								1.8



## HUDSON RIVER SYSTEM—HOOSICK RIVER, HOOSICK FALLS, N. Y.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....				1.0	0.0	-0.3	0.4	0.1	1.2	0.1	0.5	-0.2
2.....				0.2	-0.1	-0.3	0.4	0.2	0.8	0.1	0.2	-0.1
3.....				1.0	0.2	-0.3	0.2	0.1	0.7	0.1	0.3	-0.2
4.....				0.9	0.0	-0.4	0.3	0.2	0.6	0.3	-0.1	0.0
5.....				1.2	0.0	-0.4	0.3	0.4	0.5	0.1	0.0	-0.1
6.....			1.0	0.9	-0.2	-0.4	0.3	0.6	0.6	0.1	0.5	0.0
7.....			0.8	0.9	0.0	0.0	0.2	0.5	0.5	0.1	0.5	0.0
8.....				1.1	-0.2	-0.3	0.2	0.3	0.3	0.1	0.6	-0.1
9.....			2.4	1.1	-0.2	-0.2	0.1	0.3	0.3	2.1	0.2	-0.3
10.....			1.8	1.1	-0.2	-0.2	0.1	0.2	0.3	1.6	0.0	-0.2
11.....			2.0	1.0	0.0	0.0	0.0	0.2	0.2	1.2	0.0	-0.2
12.....			2.3	1.0	-0.2	1.7	0.2	0.2	0.1	0.9	0.0	0.3
13.....			1.7	0.8	-0.1	1.8	-0.1	0.2	0.4	0.6	0.0	0.5
14.....			1.4	0.6	-0.2	1.2	-0.1	0.2	0.2	0.5	0.1	0.2
15.....			1.5	0.6	-0.2	1.0	-0.2	0.2	0.1	0.5	0.4	0.0
16.....			1.1	0.8	-0.1	1.6	0.0	0.4	0.1	0.4	0.3	0.0
17.....			0.9	0.6	-0.3	1.0	0.1	0.2	0.0	0.4	0.6	-0.4
18.....			1.1	0.6	0.0	0.7	0.0	0.1	0.0	0.7	1.0	0.0
19.....			0.9	0.7	-0.1	0.6	0.2	0.0	0.6	0.6	0.7	0.0
20.....			0.9	0.4	-0.2	0.3	0.1	0.1	0.4	0.5	0.5	0.3
21.....			0.9	0.4	-0.2	1.2	0.0	0.8	0.1	0.4	0.3	2.3
22.....			1.6	0.3	-0.2	2.0	0.0	0.5	0.1	0.4	0.5	1.0
23.....			1.3	0.2	-0.2	0.7	0.2	0.6	0.1	0.3	0.3	0.8
24.....			2.3	0.1	-0.2	0.9	0.2	0.3	0.0	0.3	0.3	0.6
25.....			1.5	0.1	-0.3	0.7	0.0	0.3	0.0	0.6	0.1	0.5
26.....			1.3	0.4	-0.3	0.6	0.3	1.2	0.0	0.4	0.4	0.4
27.....			1.0	0.2	-0.3	0.6	0.1	0.7	0.3	0.1	0.0	0.5
28.....			0.9	0.1	-0.3	0.7	0.1	0.5	0.1	0.0	-0.1	0.3
29.....			1.0	0.0	-0.3	0.4	0.1	0.8	0.1	0.1	0.3	0.1
30.....			0.9	0.0	-0.3	0.4	0.1	1.0	0.1	0.1	0.0	0.0
31.....			1.3		0.2		0.1	1.3		0.0		0.0
<b>Means.</b>			1.4	0.6	-0.1	0.5	0.1	0.4	0.3	0.4	0.3	0.2
<b>1904</b>												
1.....	0.3	0.4	0.3	0.8	1.3	0.5	0.3	0.3	0.1	0.5	0.4	0.3
2.....	0.5	0.4	0.3	1.7	1.1	0.4	0.5	0.2	0.1	0.6	0.3	0.3
3.....	0.5	0.4	0.5	1.3	1.0	0.4	0.4	0.2	0.1	0.5	0.3	0.3
4.....	0.2	0.4	1.6	1.0	0.9	0.4	0.4	0.2	0.3	0.4	0.3	0.3
5.....	0.2	0.4	0.9	1.0	0.8	0.7	0.3	0.2	0.2	0.3	0.3	0.3
6.....	0.3	0.4	0.6	0.9	0.7	0.6	0.3	0.2	0.2	0.3	0.3	0.3
7.....	0.5	0.5	0.5	1.0	0.7	0.5	0.3	0.1	0.1	0.3	0.3	0.3
8.....	0.6	2.2	2.9	1.2	0.6	0.8	0.3	0.2	0.1	0.3	0.2	0.3
9.....	0.6	0.9	1.9	1.7	0.6	3.2	0.2	0.2	0.2	0.3	0.2	0.3
10.....	0.6	0.7	1.4	1.8	0.5	2.3	0.2	0.1	0.2	0.3	0.1	0.2
11.....	0.6	0.6	1.0	1.6	0.6	1.5	0.3	0.2	0.1	0.3	0.3	0.2
12.....	0.6	0.6	0.8	1.3	0.6	1.1	0.3	0.2	0.2	0.3	0.3	0.2
13.....	0.7	0.5	0.8	1.1	0.5	1.0	0.3	0.2	0.2	0.4	0.3	0.2
14.....	0.7	0.5	0.8	1.0	0.4	0.9	0.3	0.2	0.3	0.4	0.3	0.2
15.....	0.6	0.4	0.7	0.9	0.5	0.8	0.3	0.2	1.3	0.4	0.3	0.2
16.....	0.6	0.4	0.6	0.9	0.7	0.6	0.2	0.2	1.0	0.4	0.3	0.2
17.....	0.5	0.4	0.5	0.8	1.0	0.6	0.2	0.2	0.6	0.4	0.3	0.2
18.....	0.5	0.3	0.4	0.9	0.9	0.5	0.2	0.2	0.6	0.4	0.3	0.2
19.....	0.5	0.3	0.5	1.0	0.9	0.5	0.2	0.2	0.5	0.3	0.3	0.2
20.....	0.5	0.3	1.0	0.9	1.1	0.5	0.2	0.2	0.3	0.3	0.3	0.2
21.....	0.5	0.3	0.9	0.8	0.9	0.4	0.2	0.8	0.4	0.3	0.4	0.2
22.....	0.5	0.9	0.8	0.7	0.8	0.4	0.2	0.4	0.4	1.9	0.5	0.2
23.....	2.0	1.0	1.2	0.6	0.7	0.4	0.1	0.3	0.3	1.2	0.5	0.2
24.....	1.9	0.8	1.2	0.7	0.6	0.3	0.1	0.3	0.3	0.7	0.4	0.3
25.....	1.5	0.6	1.2	1.0	0.5	0.3	0.2	0.3	0.3	0.7	0.4	0.3
26.....	0.6	0.4	2.2	1.1	0.7	0.3	0.2	0.3	0.3	0.6	0.4	0.3
27.....	0.5	0.4	2.2	1.0	0.7	0.3	0.2	0.1	0.3	0.6	0.4	0.3
28.....	0.5	0.3	1.2	1.6	0.6	0.3	0.3	0.2	0.3	0.4	0.4	1.3
29.....	0.5	0.3	1.0	1.5	0.5	0.3	0.3	0.2	0.3	0.4	0.3	0.9
30.....	0.5		0.9	1.5	0.6	0.3	0.2	0.1	1.0	0.4	0.4	0.6
31.....	0.4		1.0		0.6		0.2	0.1		0.4		0.5
<b>Means.</b>	0.6	0.6	1.0	1.1	0.8	0.7	0.3	0.2	0.4	0.5	0.3	0.3

## DESCRIPTION OF RIVER GAGES, ETC.

## HUDSON RIVER SYSTEM—HOOSICK RIVER, SCHAGHTICOKE, N. Y.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1904</b>												
1					1.2	0.3	0.2	-0.3	0.0	0.8	0.5	0.5
2					0.9	0.2	0.2	0.4	0.0	0.6	0.5	0.4
3				1.2	0.8	0.3	0.3	0.3	0.1	0.5	0.4	0.4
4				0.8	0.7	0.3	0.2	0.5	0.3	0.5	0.4	0.3
5				0.8	0.7	0.2	0.1	0.4	0.1	0.5	0.5	0.2
6				0.8	0.6	0.4	0.2	0.2	0.2	0.3	0.3	0.4
7				0.9	0.6	0.3	0.1	0.1	0.1	0.3	0.3	0.4
8				1.0	0.6	0.7	0.4	0.2	0.1	0.3	0.4	0.3
9					0.5	2.5		-0.1	0.1	0.1	0.4	0.4
10				1.4	0.6	2.2	0.3	-0.2	0.1	0.2	0.3	0.4
11				1.4	0.5	1.3	0.3	0.0	0.2	0.5	0.3	0.3
12				1.1	0.5	1.0	0.4	0.5	0.2	0.5	0.3	0.3
13				0.8	0.5	1.0	0.3	0.3	0.1	0.5	0.2	0.5
14				0.8	0.4	0.7	0.3	0.1	0.1	0.5	0.3	0.5
15				0.7	0.2	0.6	0.4	-0.2	1.3	0.4	0.4	0.3
16				0.7	0.4	0.5	0.3	0.3	1.3	0.3	0.5	0.3
17				0.8	1.0	0.5	-0.3	0.2	0.6	0.4	0.4	0.4
18				0.7	0.5	0.3	0.0	0.1	0.4	0.4	0.5	0.3
19				0.9	0.6	0.3	0.3	0.0	0.4	0.3	0.3	0.3
20				0.8	1.0	0.3	0.4	-0.2	0.4	0.4	0.3	0.4
21				0.6	0.8	0.3	0.3	0.5	0.4	0.4	0.4	0.4
22				0.6	0.6	0.2	0.2	-0.2	0.2	2.0	0.5	0.4
23				0.6	0.5	0.2	0.2	0.1	0.3	1.1	0.5	0.3
24				0.6	0.5	0.3	-0.1	0.2	0.3	0.8	0.5	0.5
25				0.8	0.4	0.2	-0.3	0.2	0.3	0.6	0.5	0.3
26				1.0	0.6	0.1	0.5	0.2	0.3	0.6	0.5	0.3
27				0.9	0.5	0.2	-0.1	0.2	0.4	0.7	0.2	0.3
28				1.4	0.4	0.2	0.3	0.4	0.3	0.6	0.3	2.0
29				1.2	0.3	0.2	0.5	0.3	0.3	0.5	0.3	1.1
30				1.3	0.3	0.2	0.4	0.2	1.1	0.4	0.5	0.6
31					0.4		0.1	0.0		0.5		0.7
<b>Means</b>				0.9	0.6	0.5	0.2	0.2	0.3	0.4	0.4	0.5

## HUDSON RIVER SYSTEM—HUDSON RIVER, CORINTH, N. Y.

	Mar.	Apr.		Dec.
<b>1903</b>			<b>1904</b>	
1	2.3	4.6	1	0.4
2	3.2	4.5	2	0.6
3	3.7	4.4	3	0.5
4	3.2	4.3	4	0.2
5	3.1	5.3	5	0.2
6	3.0	5.2	6	0.2
7	2.9	4.4	7	0.1
8	2.8	4.3	8	0.2
9	4.2	4.2	9	0.2
10	4.6	4.1	10	0.2
11	6.1	4.0	11	0.2
12	7.5	3.9	12	0.1
13	7.9	3.7	13	0.1
14	7.4	3.5	14	0.1
15	6.8	3.2	15	0.2
16	6.2	2.8	16	0.1
17	5.7	2.7	17	0.1
18	5.4	2.6	18	0.1
19	5.3	2.4	19	0.2
20	5.8	2.3	20	0.2
21	6.6	2.2	21	0.1
22	7.5	2.1	22	0.2
23	7.7	1.7	23	0.1
24	9.9	1.7	24	0.1
25	9.7	1.5	25	0.2
26	7.8	1.3	26	0.2
27	7.3	1.0	27	0.3
28	6.2	1.0	28	0.8
29	5.3	0.9	29	0.8
30	4.5	0.9	30	0.7
31	4.4		31	0.7
<b>Means</b>	5.6	3.0	<b>Mean</b>	0.3

## DESCRIPTION OF RIVER GAGES, ETC.

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## HUDSON RIVER SYSTEM--HUDSON RIVER, GLENS FALLS, N. Y.

	Jan	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1903		(a)	(a)									(a)
1			2.8									0.8
2			3.4									0.2
3			3.5									
4			3.5									0.0
5			3.4									-0.1
6			3.2									1.0
7			3.0									0.2
8		1.9	3.2									0.2
9		1.8	4.0									-0.1
10		1.6	4.7									0.1
11		1.6	5.8									-1.1
12		1.7	7.5									0.6
13		2.2	8.3									0.8
14		2.2	7.8									0.8
15		2.5	7.4									0.4
16		2.2	6.6									0.1
17		1.9	6.0									0.4
18		1.6	5.7									0.0
19		1.5	5.5									0.5
20		1.3	5.7									0.7
21		1.3	6.4									0.6
22		1.6	7.7									-1.0
23		1.5	8.0									1.0
24		1.2	9.9									0.9
25		1.1	10.0									1.3
26		1.0	9.2									1.3
27		0.9	9.7									1.1
28		1.0	6.7									0.8
29			6.3									0.5
30			4.9									0.2
31			4.5									0.1
Means.		1.6	5.9									0.6
1904	(a)											
1	0.8	6.8	5.5	8.7	12.1	6.1	3.0	5.2	4.5	7.9	7.0	4.9
2	0.3	5.1	5.7	8.9	12.0	6.1	6.3	3.2	4.5	8.4	6.8	4.8
3	1.1	5.2	5.4	9.6	11.5	6.0	6.3	3.4	4.4	8.1	6.6	6.1
4	1.0	5.0	5.8	9.4	11.4	5.2	6.3	3.5	5.9	7.3	6.5	6.5
5	0.3	5.0	6.0	9.3	10.8	6.3	5.6	3.5	6.7	7.1	6.5	5.9
6	-0.3	5.1	7.4	9.7	10.3	6.3	5.6	6.7	6.7	6.8	6.8	4.6
7	-0.4	6.7	7.4	9.7	10.0	7.7	4.6	6.6	5.7	6.5	6.5	5.2
8	-0.5	6.8	6.6	10.1	9.3	6.7	4.0	6.3	5.3	6.3	6.1	5.1
9	0.7	6.2	7.3	10.5	9.1	6.5	3.9	4.0	4.8	6.6	6.1	4.8
10	0.8	6.5	7.7	11.9	8.8	8.5	5.9	3.5	4.5	6.5	5.9	4.9
11	1.0	6.7	7.7	13.0	7.9	7.9	5.6	3.5	6.1	6.3	5.5	6.7
12	0.4	6.7	7.6	12.6	7.7	8.4	3.5	3.6	5.9	7.1	6.5	6.4
13	-0.2	6.6	7.9	12.1	7.1	7.7	4.1	4.3	4.4	7.3	6.7	4.9
14	-1.2	7.0	7.8	11.0	7.0	6.9	4.3	5.6		7.2	6.4	4.8
15	-0.2	7.1	7.4	10.2	7.1	6.4	5.0	5.6	4.9	6.9	5.9	4.6
16	0.5	5.9	7.3	9.6	6.8	6.2	4.3	3.3	4.0	7.5	5.0	4.7
17	1.0	5.6	7.2	9.7	7.0	6.1	6.0	3.5	4.5	6.9	5.4	5.0
18	0.9	5.5	7.1	9.0	7.6	5.7	5.7	3.3	6.2	6.3	4.8	6.4
19	0.2	6.0	6.8	8.6	7.2	6.3	4.7	4.3	6.5	6.1	4.7	6.5
20	-0.5	5.2	7.1	8.5	7.7	5.9	3.5	3.1	5.7	6.0	6.1	4.9
21	-1.5	6.6	6.9	8.3	7.6	3.7	3.6	5.9	5.1	5.6	6.3	4.8
22	0.5	6.8	6.6	8.1	8.5	3.9	3.3	7.5	5.0	10.0	4.0	4.7
23	-0.5	5.7	6.7	8.0	8.5	4.5	2.8	7.5	5.1	11.4	4.7	4.5
24	1.3	6.0	7.2	8.2	7.3	4.9	5.5	7.3	5.2	11.0	4.5	4.8
25	1.1	6.4	7.4	8.6	7.1	4.0	5.8	7.0	6.6	10.0	5.4	6.5
26	0.4	6.0	7.7	9.1	7.2	5.9	3.0	6.7	6.8	9.3	5.8	6.6
27	0.3	5.8	9.3	9.4	7.1	5.5	2.8	5.9	7.1	8.7	6.5	6.7
28	-0.6	7.0	9.3	9.7	7.3	3.6	3.4	6.4	7.0	8.3	6.0	4.7
29	-0.2	7.2	8.8	10.8	7.3	2.5	5.0	6.0	6.9	7.9	4.8	6.6
30	-0.4		8.8	11.5	7.0	3.1	3.2	4.1	7.0	8.0	4.6	6.4
31	1.3		8.8		6.5		6.0	3.9		7.5		6.5
Means.	0.0	6.1	7.3	9.8	8.4	5.8	4.6	5.0	5.6	7.6	5.8	5.5

\* To reduce to zero of gage in use on and after February 1, 1904, add 5.5 feet.

### DESCRIPTION OF RIVER GAGES, ETC.

## Hudson River System Hudson River, Mechanicville, N. Y.

	Mar.	Dec.		Jan.	Feb.	Mar.	Dec.
1905			1904				
1	5.1	2.1	1	0.7	1.2	1.3	0.1
2	4.0	2.0	2	0.6	0.9	1.0	0.0
3	3.3	1.9	3	1.5	0.8	1.1	0.0
4	3.1	1.7	4	1.1	0.9	2.9	0.4
5	3.0	1.6	5	1.1	0.4	2.0	0.2
6	2.9	2.5	6	1.0	0.7	2.1	0.0
7	2.8	2.2	7	0.8	1.6	1.5	0.0
8	3.3	1.8	8	0.8	3.0	3.0	0.0
9	4.9	1.6	9	0.6	2.2	3.0	0.1
10	4.7	1.3	10	1.9	1.7	2.5	0.0
11	4.5	1.2	11	0.8	1.6	2.3	0.5
12	6.5	1.2	12	1.2	1.6	2.0	0.1
13	6.6	2.5	13	0.9	1.5	2.3	0.0
14	6.2	2.4	14	0.8	2.1	1.8	0.1
15	5.8	2.1	15	0.7	1.6	1.6	0.0
16	5.3	1.2	16	1.1	1.3	1.5	0.0
17	4.8	1.3	17	2.0	1.2	1.5	0.0
18	4.5	1.2	18	1.2	1.2	1.3	0.6
19	4.3	1.2	19	1.0	0.8	1.2	0.1
20	4.3	1.6	20	1.2	1.2	2.0	0.0
21	4.6	2.7	21	1.0	1.7	1.7	0.0
22	6.3	1.9	22	0.3	1.2	1.7	0.0
23	6.1	1.5	23	1.3	2.6	1.8	0.0
24	7.3	1.5	24	2.9	2.1	2.6	0.0
25	7.6	2.0	25	2.0	1.6	2.6	0.7
26	7.3	1.9	26	1.5	1.4	3.8	0.7
27	6.3	1.5	27	1.1	1.4	4.3	0.5
28	5.3	0.8	28	1.0	1.7	3.7	1.4
29	5.0	0.8	29	0.8	1.3	3.2	1.2
30	4.1	0.8	30	0.9	-----	3.2	0.9
31	4.1	0.9	31	1.7	-----	3.2	0.8
Means	5.0	1.6	Means	1.1	1.5	2.2	0.3

**HUDSON RIVER SYSTEM--HUDSON RIVER, COHOKS, N. Y.**

[illegible]

## HUDSON RIVER SYSTEM—HUDSON RIVER, COHOES, N. Y.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1904</b>												
1.....	4.5	1.4	1.4	-----	4.7	6.8	7.2	7.0	6.7	1.3	1.4	1.6
2.....	1.4	1.4	1.5	-----	5.2	7.0	7.3	7.2	6.8	1.3	1.4	1.4
3.....	1.5	1.4	1.5	-----	5.4	7.0	7.3	7.3	6.8	1.6	1.4	1.4
4.....	1.4	1.4	1.8	-----	5.7	7.0	7.1	7.3	6.6	1.7	1.4	1.5
5.....	1.4	1.5	2.4	-----	5.6	7.0	7.3	7.3	6.7	1.8	1.4	1.3
6.....	1.3	1.4	2.2	-----	5.8	6.8	7.2	7.3	6.7	1.9	1.4	1.2
7.....	1.3	1.6	2.0	-----	5.8	6.8	7.3	7.2	6.8	1.9	4.2	1.0
8.....	1.3	1.6	2.1	-----	5.8	6.6	7.2	7.0	7.0	1.9	3.7	0.4
9.....	1.2	3.5	2.8	-----	6.3	6.0	7.3	7.0	7.1	1.9	3.6	0.2
10.....	1.6	2.6	3.0	-----	6.4	5.4	7.2	7.0	7.0	1.9	3.5	0.2
11.....	1.6	2.4	2.7	-----	6.5	5.5	7.4	7.1	7.1	2.0	3.4	0.1
12.....	1.5	2.2	2.6	-----	6.6	5.5	7.5	7.1	7.2	1.5	3.4	0.3
13.....	1.5	2.0	2.5	4.9	6.7	6.2	7.3	7.2	7.2	1.8	3.6	0.3
14.....	1.5	2.0	2.3	5.3	6.8	6.8	7.4	7.2	7.4	1.9	3.5	0.2
15.....	1.5	2.0	2.1	5.7	6.9	6.9	7.5	7.5	7.4	1.9	3.5	0.3
16.....	1.5	1.8	2.0	5.6	6.8	7.0	7.3	7.6	7.4	1.8	3.4	0.2
17.....	1.6	1.6	1.8	5.1	6.3	7.0	7.3	7.7	7.5	1.5	3.1	1.0
18.....	1.6	1.5	1.8	5.8	6.3	7.0	7.4	7.8	7.6	1.4	2.8	1.0
19.....	1.6	1.4	1.7	5.8	6.5	7.0	7.3	7.7	7.4	1.3	2.5	0.1
20.....	1.5	1.4	1.7	5.8	6.7	7.1	7.3	7.6	7.4	1.1	2.3	0.3
21.....	1.4	1.5	1.9	6.2	6.5	7.3	7.3	7.3	7.4	1.6	1.9	0.3
22.....	1.4	1.8	2.0	6.4	6.2	7.4	7.4	7.6	7.5	3.7	1.5	0.4
23.....	1.3	1.5	2.3	6.4	6.5	7.5	7.3	5.7	7.3	3.5	1.6	0.4
24.....	1.6	1.6	3.4	6.2	6.7	7.5	7.2	6.1	7.3	2.8	1.8	0.3
25.....	2.6	1.7	3.8	6.3	6.9	7.3	7.3	6.4	7.2	2.5	1.7	0.4
26.....	2.0	1.8	4.2	5.1	6.9	7.4	7.4	6.3	6.7	1.9	1.8	0.2
27.....	1.8	1.8	-----	5.4	6.9	7.7	7.5	6.2	6.5	1.8	1.9	0.5
28.....	1.7	1.9	-----	4.7	6.8	7.7	7.5	6.3	6.5	1.7	1.5	1.0
29.....	1.5	1.8	-----	4.7	6.7	7.7	7.2	6.4	6.6	1.6	1.7	2.5
30.....	1.5	-----	-----	4.8	6.7	7.7	7.0	6.6	6.8	1.5	1.6	2.3
31.....	1.7	-----	-----	-----	6.6	-----	7.1	6.7	-----	1.5	-----	2.4
<b>Means.</b>	1.6	1.8	2.3	5.6	6.3	6.9	7.3	7.0	7.1	1.9	2.4	0.8

## HUDSON RIVER SYSTEM—HUDSON RIVER, TROY, N. Y.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	-----	-----	13.8	-----	-----	-----	-----	-----	-----	-----	-----	1.6
2.....	-----	-----	14.9	-----	-----	-----	-----	-----	-----	-----	-----	1.3
3.....	-----	-----	12.7	-----	-----	-----	-----	-----	-----	-----	-----	0.0
4.....	-----	-----	11.4	-----	-----	-----	-----	-----	-----	-----	-----	1.5
5.....	-----	-----	8.5	-----	-----	-----	-----	-----	-----	-----	-----	1.4
6.....	-----	-----	8.3	-----	-----	-----	-----	-----	-----	-----	-----	-----
7.....	-----	-----	7.0	-----	-----	-----	-----	-----	-----	-----	-----	1.7
8.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1.6
9.....	-----	-----	11.1	-----	-----	-----	-----	-----	-----	-----	-----	0.2
10.....	-----	-----	11.9	-----	-----	-----	-----	-----	-----	-----	-----	1.7
11.....	-----	-----	13.4	-----	-----	-----	-----	-----	-----	-----	-----	0.2
12.....	-----	-----	16.7	-----	-----	-----	-----	-----	-----	-----	-----	0.3
13.....	-----	-----	15.2	-----	-----	-----	-----	-----	-----	-----	-----	-----
14.....	-----	-----	13.7	-----	-----	-----	-----	-----	-----	-----	-----	1.3
15.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	0.1
16.....	-----	-----	10.6	-----	-----	-----	-----	-----	-----	-----	-----	1.6
17.....	-----	-----	9.4	-----	-----	-----	-----	-----	-----	-----	-----	1.2
18.....	-----	-----	8.5	-----	-----	-----	-----	-----	-----	-----	-----	1.4
19.....	-----	-----	7.9	-----	-----	-----	-----	-----	-----	-----	-----	1.0
20.....	-----	-----	7.9	-----	-----	-----	-----	-----	-----	-----	-----	-----
21.....	-----	-----	8.8	-----	-----	-----	-----	-----	-----	-----	-----	1.7
22.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	4.5
23.....	-----	-----	12.5	-----	-----	-----	-----	-----	-----	-----	-----	3.2
24.....	-----	-----	17.5	-----	-----	-----	-----	-----	-----	-----	-----	2.5
25.....	-----	8.7	17.1	-----	-----	-----	-----	-----	-----	-----	-----	-----
26.....	-----	8.2	15.2	-----	-----	-----	-----	-----	-----	-----	-----	2.7
27.....	-----	7.8	11.9	-----	-----	-----	-----	-----	-----	-----	-----	-----
28.....	-----	8.3	9.9	-----	-----	-----	-----	-----	-----	-----	-----	1.9
29.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	0.1
30.....	-----	-----	7.8	-----	-----	-----	-----	-----	-----	-----	-----	0.3
31.....	-----	-----	7.5	-----	-----	-----	-----	-----	-----	-----	-----	0.4
<b>Means.</b>	-----	-----	11.5	-----	-----	-----	-----	-----	-----	-----	-----	1.4

## DESCRIPTION OF RIVER GAGES, ETC.

## HUDSON RIVER SYSTEM—HUDSON RIVER, TROY, N. Y.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	0.0	6.5	6.5	12.0	13.7	5.7	4.8	4.3	2.8	5.1	4.4	2.4
2.....	0.1	6.1	6.2	14.0	12.0	5.6	5.0	3.6	2.4	6.8	3.8	2.2
3.....		5.9	5.9	15.1	11.5	5.3	3.5	2.8	1.5	6.5	3.9	2.0
4.....	0.2	4.9	5.9	11.0	11.6	4.9	3.1	2.0	2.7	4.9	4.0	2.2
5.....	0.3	4.6	6.5	11.5	10.8	3.2	3.9	2.4	2.5	3.8	4.7	2.0
6.....	0.2	4.5	8.4	11.2	10.3	3.1	3.0	3.0	3.0	3.6	4.9	2.2
7.....	0.5	4.9	7.9	10.9	9.5	4.0	3.0	3.1	3.7	3.9	4.6	2.4
8.....	0.3	6.8	7.9	12.9	8.7	5.4	3.3	2.8	3.9	4.5	4.3	2.3
9.....	1.2	12.1	7.5	12.8	7.9	9.1	3.2	2.9	3.7	5.0	4.0	2.2
10.....		9.7	9.9	14.7	7.5	11.2	3.2	3.7	4.4	5.0	4.0	2.7
11.....	0.2	9.4	10.6	16.0	7.5	10.4	3.4	4.0	3.5	4.7	4.2	2.6
12.....	0.4	8.8	10.4	15.0	6.7	8.4	4.2	3.8	4.5	7.0	3.0	2.5
13.....	1.4	8.5	10.0	14.3	6.0	7.8	4.1	4.9	3.6	5.7	3.2	2.3
14.....	1.8	8.5	9.5	13.0	6.0	7.0	4.5	2.5	3.6	4.9	2.0	2.5
15.....	0.1	7.9	9.2	11.0	5.9	6.3	5.0	2.5	3.8	4.5	2.4	2.1
16.....	0.1	7.4	8.7	9.0	6.0	6.3	5.0	3.5	4.0	4.5	2.2	2.2
17.....	0.0	7.0	7.4	8.2	7.2	5.8	3.0	2.8	3.6	4.0	2.1	2.3
18.....	0.1	6.7	6.9	9.3	7.8	5.8	3.7	1.6	3.9	3.5	2.8	2.4
19.....	0.3	6.2	6.8	9.5	7.1	3.5	3.0	1.3	2.9	3.3	3.2	2.2
20.....	0.0	6.2	6.8	8.5	6.8	3.5	2.0	2.2	3.0	3.9	3.0	2.0
21.....	0.2	5.0	7.8	7.7	6.9	2.9	2.0	5.1	2.9	3.7	3.6	2.1
22.....	0.1	5.1	8.0	7.0	6.8	2.9	2.0	6.5	2.8	10.5	3.9	2.3
23.....	4.9	7.7	8.4	6.8	6.6	2.7	2.1	6.5	2.8	12.0	4.5	2.3
24.....		7.2	13.5	7.0	6.0	3.0	2.0	6.8	3.5	11.2	4.3	2.4
25.....	8.1	7.1	14.0	7.8	5.6	2.9	3.0	6.5	3.0	8.7	3.2	2.2
26.....	6.8	7.0	14.0	9.7	5.7	3.8	3.7	5.9	4.0	8.0	3.0	2.3
27.....	6.8	7.0	17.3	10.4	5.9	3.6	4.3	6.5	4.2	7.0	2.9	6.1
28.....	6.9	6.9	15.9	11.1	5.7	4.0	4.3	4.5	4.5	6.3	2.2	6.5
29.....	6.8	6.7	13.5	13.5	5.9	4.9	5.3	4.5	4.0	6.1	2.4	10.3
30.....	6.5		11.6	13.9	5.9	4.9	4.5	3.5	4.0	5.2	2.6	8.5
31.....	6.7		11.0		5.4		3.4	3.7		5.0		8.0
Means.	2.2	7.0	9.5	11.2	7.6	5.3	3.6	3.9	3.4	5.8	3.4	3.2

## HUDSON RIVER SYSTEM—HUDSON RIVER, ALBANY, N. Y.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1903												
1.....	6.6	7.8	14.6	6.4								2.4
2.....	6.0	7.7	16.3	7.1								2.8
3.....	6.1	7.3	14.2	6.9								3.0
4.....		7.4	12.8	5.8								3.4
5.....	9.0	9.3	10.8	5.9								3.6
6.....	8.5	9.1	9.0	6.3								3.8
7.....	7.4	7.4	7.2	5.9								3.4
8.....	6.6	6.5	5.2	5.4								3.7
9.....	5.4	6.0	8.6	6.0								3.6
10.....	4.7	5.1	9.8	6.0						a 14.7		3.6
11.....		5.0	10.6	6.2						14.1		2.3
12.....	4.5	6.1	13.6	5.7						10.1		1.9
13.....	4.1	8.1	12.5	5.4								2.4
14.....	5.8	7.7	11.6	5.6								1.2
15.....	4.0	6.6	9.8	5.7								1.9
16.....	4.2	6.1	9.0	5.0								2.3
17.....	4.2	5.6	8.1	4.4								2.3
18.....	4.0	4.4	7.0	4.2								2.4
19.....	3.3	3.8	6.6	2.5								2.4
20.....	3.2	3.4	6.4	2.4								3.1
21.....	3.0	3.4	6.9	2.0								3.7
22.....	3.8	3.6	8.4	1.7								5.5
23.....	4.2	3.4	10.2	2.0								4.0
24.....	4.3	3.5	14.0	2.2								4.0
25.....	4.5	3.3	14.4	2.4								3.8
26.....	4.2	3.2	12.8	2.6								4.0
27.....	4.0	3.2	10.4	2.9								2.2
28.....	3.8	4.0	8.2	2.9								2.4
29.....	3.9		7.2	2.8								1.5
30.....	5.3		6.7	2.5								2.6
31.....	8.2		6.7									1.9
Means.	5.1	5.6	10.0	4.4								2.9

a 16.3 at 8.30 p. m.



## HUDSON RIVER SYSTEM—HUDSON RIVER, ALBANY, N. Y.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1904</b>												
1.....	2.0	3.8	4.1	7.9	9.8	5.1	4.8	4.4	3.1	4.0	2.6	1.2
2.....	2.7	3.1	4.8	10.1	9.4	5.2	4.5	4.7	3.1	4.0	1.8	0.4
3.....	3.0	3.1	4.9	10.3	9.0	5.0	4.7	3.0	2.4	3.6	2.2	-0.1
4.....	3.0	3.1	5.5	8.2	8.3	4.0	3.7	2.5	1.4	2.7	2.7	1.4
5.....	2.6	3.1	5.4	7.5	7.6	3.9	3.4	2.2	0.8	2.6	2.7	1.8
6.....	3.3	2.1	5.5	7.4	7.0	2.5	1.5	1.6	1.6	3.0	3.7	2.8
7.....	3.4	3.2	4.9	7.6	6.3	2.5	1.0	2.0	2.5	2.4	3.6	3.2
8.....	3.1	3.8	6.6	8.4	5.8	3.4	1.5	2.5	3.0	3.2	3.3	3.0
9.....	3.3	6.9	8.2	8.9	5.0	5.8	1.9	2.4	2.4	3.3	3.7	2.8
10.....	2.2	5.0	8.4	10.5	4.8	9.1	2.7	2.9	2.8	3.6	4.2	2.7
11.....	1.5	4.1	7.0	11.5	4.7	6.7	2.8	3.4	4.1	4.5	3.9	2.3
12.....	2.2	4.3	6.5	11.4	4.1	6.1	3.4	3.1	4.4	4.5	3.2	2.4
13.....	2.8	4.2	6.0	10.1	4.2	5.7	3.4	4.4	3.7	5.9	2.8	2.6
14.....	3.4	4.4	5.8	8.8	4.4	5.5	3.6	4.7	4.2	4.3	1.2	1.8
15.....	2.2	4.9	5.6	7.6	4.8	6.1	3.8	4.5	3.9	2.9	1.3	1.3
16.....	1.7	4.7	5.4	7.0	4.9	5.4	5.0	3.9	2.5	2.7	1.1	1.4
17.....	2.8	2.2	4.4	6.3	5.3	5.1	4.5	3.4	2.3	2.2	0.5	1.9
18.....	1.8	2.2	4.4	6.6	5.9	5.1	3.9	3.3	1.9	2.1	2.0	2.0
19.....	2.1	3.7	4.8	7.0	6.0	4.2	3.5	0.9	1.8	2.0	2.4	1.6
20.....	3.6	3.2	5.1	6.0	6.0	4.2	2.0	1.5	2.1	2.2	2.4	2.3
21.....	3.0	3.5	5.2	5.5	5.2	2.5	1.0	2.1	2.3	3.0	2.8	2.5
22.....	3.9	3.8	5.6	5.4	5.8	1.7	1.4	4.1	1.9	7.2	2.9	2.5
23.....	4.1	3.9	6.0	4.3	4.2	1.4	2.0	4.6	3.0	8.7	2.7	2.3
24.....	4.2	3.5	8.8	4.4	4.9	2.0	2.5	4.7	3.9	7.6	3.7	2.6
25.....	4.2	3.0	12.2	4.9	3.4	2.2	2.5	4.8	3.4	6.7	4.0	3.0
26.....	4.4	2.0	10.4	6.3	3.7	3.0	3.0	4.6	3.4	5.7	3.0	3.7
27.....	3.2	3.1	13.8	7.1	4.5	3.0	3.4	3.6	3.8	4.9	3.3	3.4
28.....	2.6	3.0	11.8	7.7	4.1	3.4	3.7	3.6	4.7	4.8	2.5	4.7
29.....	2.6	3.0	9.6	9.7	4.7	4.3	4.5	4.1	5.0	4.9	2.9	6.9
30.....	3.3	-----	8.3	10.1	5.0	4.6	3.9	3.6	4.5	3.9	2.5	4.7
31.....	3.8	-----	7.8	-----	4.6	-----	4.9	4.1	-----	3.1	-----	3.9
Means.	3.0	3.6	6.9	7.8	5.6	4.3	3.2	3.4	3.0	4.1	2.7	2.5

## HUDSON RIVER SYSTEM—HUDSON RIVER, CASTLETON, N. Y.

	Mar.	Dec.		Jan.	Feb.	Mar.	Dec.
<b>1903</b>			<b>1904</b>				
1.....		2.0	1.....	2.0	4.1	4.4	1.4
2.....		2.6	2.....	3.0	3.1	5.1	0.7
3.....		3.0	3.....	3.2	3.8	5.0	0.9
4.....		3.5	4.....	4.0	3.6	5.1	2.0
5.....		3.9	5.....	-----	3.5	4.9	2.4
6.....		3.6	6.....	-----	-----	5.4	3.3
7.....		3.7	7.....	-----	3.4	4.7	3.8
8.....		4.6	8.....	3.5	3.5	6.0	3.5
9.....	5.4	4.0	9.....	3.7	4.8	6.6	3.3
10.....	6.5	4.5	10.....	2.5	4.0	6.6	3.0
11.....	7.1	3.2	11.....	1.5	3.0	5.5	2.6
12.....	9.3	2.3	12.....	2.2	3.6	5.4	2.8
13.....	8.9	2.2	13.....	3.3	3.5	5.2	3.0
14.....	8.3	1.0	14.....	3.9	4.1	4.9	2.4
15.....	7.2	1.7	15.....	3.2	5.0	5.1	1.7
16.....	6.9	2.3	16.....	1.9	3.5	4.9	1.8
17.....	6.4	2.3	17.....	3.4	2.0	3.9	2.4
18.....	5.4	2.5	18.....	2.0	3.0	4.7	2.6
19.....	5.4	2.6	19.....	3.0	4.0	4.9	2.1
20.....	4.6	3.4	20.....	3.9	3.7	5.3	3.0
21.....	4.7	4.9	21.....	3.8	3.9	4.8	3.2
22.....	5.4	5.1	22.....	4.1	3.9	5.1	2.1
23.....	6.5	3.7	23.....	4.5	3.6	5.4	2.8
24.....	9.4	3.8	24.....	4.0	3.3	6.7	3.2
25.....	10.1	4.0	25.....	3.7	3.0	8.6	3.5
26.....	8.8	4.2	26.....	-----	-----	9.5	4.0
27.....	7.3	2.1	27.....	2.0	2.8	10.3	3.7
28.....	5.7	2.4	28.....	1.7	3.1	9.3	4.5
29.....	4.7	1.7	29.....	2.0	3.5	7.7	5.6
30.....	5.2	2.0	30.....	3.3	-----	6.8	3.8
31.....	5.4	1.8	31.....	3.9	-----	6.7	3.1
Means	6.7	3.1	Means	3.1	3.6	6.0	2.8

## DESCRIPTION OF RIVER GAGES, ETC.

## HUDSON RIVER SYSTEM—HUDSON RIVER, STUYVESANT, N. Y.

	Mar.	Dec.		Jan:	Feb.	Mar.	Dec.
1903			1904				
1	4.3	1.0	1	-0.4	1.6	1.6	1.5
2	5.9	0.3	2	0.7	0.5	3.0	1.0
3	5.5	0.9	3	1.0	1.0	3.0	0.5
4	5.5	1.8	4	1.6	1.2	2.6	0.0
5	5.3	1.9	5	1.0	1.4	3.2	-0.5
6	5.3	2.0	6	1.9	2.5	3.3	0.5
7	4.8	2.2	7	2.6	2.8	3.6	1.5
8	4.0	2.8	8	3.1	3.0	5.0	1.7
9	3.3	4.7	9	3.1	1.5	4.0	2.0
10	3.5	3.7	10	2.0	0.3	2.0	2.6
11	4.0	2.9	11	0.9	0.0	1.5	3.0
12	5.5	2.0	12	0.8	-0.1	1.5	2.6
13	5.8	1.0	13	0.6	-0.2	2.0	3.0
14	5.7	-0.2	14	1.0	1.2	1.0	2.0
15	5.3	-0.3	15	-0.6	2.2	2.2	1.6
16	5.5	-0.2	16	-0.6	0.6	2.3	2.3
17	5.5	0.0	17	0.6	-0.6	2.6	1.6
18	4.9	0.4	18	0.6	0.6	2.7	1.0
19	4.6	0.5	19	1.3	2.6	3.0	0.5
20	4.5	1.5	20	4.4	2.0	3.7	0.5
21	4.8	3.0	21	2.2	2.6	3.0	0.0
22	4.5	2.9	22	3.0	3.0	3.7	0.5
23	4.3	2.0	23	3.8	2.6	4.0	0.8
24	5.9	2.0	24	3.6	2.3	3.0	1.0
25	6.3	2.9	25	2.6	1.6	4.5	2.0
26	5.0	3.2	26	1.9	1.0	4.7	3.0
27	4.5	1.2	27	0.3	0.7	4.5	3.5
28	3.5	1.0	28	0.3	0.6	4.5	4.0
29	2.9	0.9	29	-0.2	0.0	5.0	3.5
30	2.9	1.0	30	0.5	-----	4.0	2.0
31	4.6	-0.1	31	1.0	-----	3.0	1.0
Means	4.8	1.6	Means	1.5	1.3	3.1	1.6

## JAMES RIVER SYSTEM—JAMES RIVER, BUCHANAN, VA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1							3.1	2.5	1.8	1.8	1.7	1.8
2							2.9	2.1	1.9	1.7	1.7	1.8
3							2.7	2.2	1.9	1.6	1.7	1.8
4							2.6	2.1	1.9	1.6	1.7	1.8
5							2.5	2.1	1.9	1.7	1.7	1.9
6							2.5	2.9	1.9	1.7	1.7	2.2
7							2.4	2.3	1.8	1.7	1.8	2.1
8							2.4	2.4	1.8	1.7	1.8	2.0
9							2.3	2.2	1.8	1.7	1.8	2.0
10							2.3	2.1	1.8	1.7	1.8	2.0
11							2.2	2.7	1.9	1.7	1.8	1.9
12							2.5	2.5	1.9	1.7	1.8	1.9
13							2.4	2.3	1.9	1.7	1.8	1.8
14							2.3	2.3	1.9	1.7	2.0	1.7
15							2.2	2.1	1.9	1.7	1.9	1.7
16							2.2	2.0	1.9	1.7	1.9	1.7
17							2.1	2.3	1.9	1.7	1.9	1.7
18							2.1	2.1	1.8	1.7	1.9	1.8
19							2.1	2.2	1.8	1.7	1.8	1.9
20							2.1	2.1	1.8	1.7	1.8	1.9
21							2.0	2.1	1.8	1.7	1.8	1.9
22							2.0	2.1	1.8	1.7	1.8	1.8
23							2.1	2.1	1.8	1.7	1.9	1.8
24							2.2	2.0	1.8	1.8	1.9	1.8
25							2.3	2.0	1.8	1.8	1.8	1.9
26							2.3	2.0	1.8	1.8	1.8	2.1
27							2.2	2.0	1.8	1.8	1.8	2.3
28							2.2	1.9	1.8	1.8	1.8	2.3
29							2.2	1.9	1.8	1.8	1.8	2.4
30							2.1	1.8	1.8	1.7	1.8	2.3
31							2.1	1.7	-----	1.7	-----	2.2
Means							2.3	2.2	1.9	1.7	1.8	1.9

## DESCRIPTION OF RIVER GAGES, ETC.

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## JAMES RIVER SYSTEM—JAMES RIVER, LYNCHBURG, VA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	Frozen.	Frozen.	6.1	2.8	1.5	1.1	1.0	0.4	0.0	0.2	0.7	2.3
2.....			7.6	2.5	1.2	1.0	1.0	0.3	-0.1	0.5	0.6	2.0
3.....			5.5	2.3	1.2	2.0	0.9	0.2	-0.2	0.4	0.4	1.8
4.....		0.9	4.7	2.3	1.2	1.5	0.9	0.2	-0.2	0.3	2.1	2.5
5.....		1.1	3.4	2.1	1.2	1.2	0.8	0.2	-0.3	0.1	1.8	5.8
6.....	0.2	0.9	3.0	1.8	1.2	1.0	0.8	0.2	-0.3	0.0	1.3	4.5
7.....	0.4	0.9	2.8	1.6	1.2	0.9	0.6	0.2	-0.3	0.0	1.0	3.1
8.....	0.4	1.2	2.8	1.4	1.2	0.8	0.8	0.1	-0.3	-0.1	0.8	2.0
9.....	0.3	1.9	2.8	1.4	1.2	0.8	1.0	0.0	-0.3	-0.1	0.7	2.6
10.....	0.2	2.3	2.6	1.4	1.1	0.7	0.6	0.0	-0.3	-0.1	0.5	2.3
11.....	0.2	1.9	2.5	1.4	1.0	0.5	0.4	0.0	-0.4	-0.1	0.4	2.0
12.....	1.3	1.7	2.4	1.6	1.0	0.4	0.3	-0.2	-0.4	-0.2	0.3	1.8
13.....	1.8	3.6	2.2	1.5	0.9	2.0	0.2	-0.3	-0.4	-0.2	0.2	1.6
14.....	1.6	7.7	2.0	1.4	0.8	1.6	0.2	-0.3	-0.4	-0.2	0.2	1.3
15.....	1.6	4.6	1.9	1.3	0.7	1.6	0.2	-0.3	-0.4	-0.2	0.2	1.0
16.....	1.4	3.5	2.0	1.2	0.6	2.9	0.2	-0.2	1.4	-0.2	0.2	1.0
17.....	1.2	3.0	2.0	1.2	0.6	4.2	0.2	-0.2	1.6	-0.3	0.2	1.0
18.....	1.2	2.4	1.9	1.9	0.8	5.1	0.1	-0.3	1.0	-0.3	0.2	1.0
19.....	3.3	2.0	1.8	3.2	0.9	5.8	0.1	-0.3	0.7	-0.3	0.2	0.9
20.....	6.8	1.8	4.9	3.8	1.6	3.6	0.1	-0.3	0.4	-0.3	0.3	0.9
21.....	7.4	1.7	8.7	3.6	1.4	2.9	0.0	-0.3	0.2	-0.3	0.4	0.8
22.....	4.4	4.9	6.8	4.7	1.2	2.2	0.0	-0.3	0.0	-0.3	0.6	0.8
23.....	3.3	6.7	4.3	4.1	1.0	1.9	0.3	-0.1	0.0	-0.1	0.3	1.0
24.....	2.6	5.1	3.5	3.4	1.6	1.7	0.4	0.2	-0.1	7.3	0.1	1.5
25.....	2.3	4.6	3.3	3.0	2.0	1.5	0.5	0.2	-0.1	4.8	0.1	1.6
26.....	1.9	3.8	3.2	2.6	2.2	1.4	1.6	0.1	-0.1	3.4	8.6	1.3
27.....	1.3	2.9	3.0	2.3	2.5	1.2	1.4	0.1	-0.1	2.3	15.4	1.1
28.....	1.3	2.4	3.0	2.1	1.6	1.2	1.2	0.0	-0.1	1.7	8.7	0.9
29.....	1.3		3.0	2.0	1.5	1.2	1.0	0.0	-0.1	1.1	3.6	0.8
30.....	1.1		3.2	1.8	1.4	1.0	0.9	0.0	-0.1	1.0	2.8	0.7
31.....	1.0		3.0		1.3		0.8	-0.1	0.0	0.8		0.9
<b>Means.</b>	1.9	2.9	3.5	2.3	1.3	1.8	0.6	0.0	0.0	0.7	1.8	1.7
<b>1901</b>												
1.....	0.9	1.0	0.4	2.0	2.3	3.4	3.5	0.7	2.3	1.6	0.3	0.3
2.....	0.8	1.0	0.4	2.0	2.0	2.8	3.2	0.7	2.5	1.4	0.3	0.3
3.....	0.7	1.3	0.3	6.2	1.9	2.7	2.9	0.6	2.7	1.2	0.3	0.4
4.....	0.6	1.4	0.3	10.8	1.8	2.6	2.5	0.6	2.3	1.0	0.3	1.0
5.....	0.5	1.3	0.4	6.7	1.7	2.2	2.3	0.7	1.5	1.0	0.3	1.3
6.....	0.5	1.3	0.4	4.8	1.6	2.0	2.2	2.3	1.0	1.0	0.3	1.3
7.....	0.5	1.1	0.4	4.7	1.5	3.1	2.0	8.8	0.6	0.9	0.2	1.2
8.....	0.5	1.0	0.4	4.5	1.4	3.0	1.9	4.7	1.0	0.9	0.2	1.2
9.....	0.5	1.4	0.9	3.6	1.4	2.7	1.8	3.1	1.5	0.7	0.2	1.2
10.....	0.5	1.5	1.1	3.0	1.8	2.4	1.6	2.3	1.4	0.7	0.2	1.3
11.....	0.9	1.3	4.9	2.5	2.6	1.9	1.3	2.0	1.0	0.7	0.2	1.5
12.....	5.7	1.3	6.3	2.2	3.4	1.7	1.3	1.9	1.3	0.6	0.2	1.7
13.....	7.2	1.3	4.2	2.0	2.8	1.7	1.3	2.7	1.5	0.8	0.2	1.7
14.....	4.4	1.3	3.4	2.3	2.2	1.7	1.4	3.2	1.2	0.8	0.2	1.7
15.....	3.3	1.2	2.8	5.2	1.8	3.6	3.0	6.8	1.0	0.7	0.2	12.7
16.....	2.9	1.1	2.1	5.6	1.5	11.5	3.5	7.3	1.0	0.6	0.2	11.8
17.....	2.5	1.0	1.9	4.8	1.4	7.3	3.8	5.1	1.3	0.5	0.2	5.6
18.....	2.0	1.0	1.8	4.1	1.4	4.5	3.1	4.6	1.5	0.5	0.2	4.3
19.....	1.7	1.0	1.6	3.6	1.4	3.2	3.5	3.7	1.8	0.5	0.2	3.0
20.....	1.4	1.0	1.5	4.8	1.6	2.3	3.0	2.8	1.6	0.5	0.2	2.5
21.....	1.2	0.9	1.5	13.2	1.6	3.4	2.5	2.5	1.2	0.5	0.2	2.0
22.....	1.0	0.9	2.6	8.4	4.2	3.2	2.0	2.3	1.1	0.5	0.1	1.4
23.....	1.0	0.8	2.5	6.1	13.8	3.7	1.9	2.1	1.0	0.4	0.1	1.2
24.....	1.0	0.6	2.4	4.8	8.3	3.3	1.5	2.5	0.8	0.4	0.9	1.5
25.....	1.4	0.5	2.3	4.4	6.2	3.5	1.2	2.7	0.8	0.4	1.1	2.0
26.....	1.3	0.5	2.4	3.8	4.0	3.0	1.1	2.6	0.7	0.4	0.8	2.3
27.....	1.2	0.5	5.7	3.4	4.7	2.8	1.0	3.0	0.7	0.4	0.7	2.9
28.....	1.2	0.4	4.6	3.0	7.2	2.7	0.9	3.2	0.7	0.4	0.5	4.0
29.....	1.2		3.2	2.8	6.7	3.0	0.8	2.7	1.3	0.4	0.3	10.3
30.....	1.1		2.3	2.6	5.3	3.2	0.7	2.3	2.0	0.3	0.3	21.2
31.....	1.1		2.2		4.0		0.7	2.0		0.3		12.7
<b>Means.</b>	1.6	1.0	2.2	4.6	3.3	3.3	2.0	3.0	1.3	0.7	• 0.3	3.8

## DESCRIPTION OF RIVER GAGES, ETC.

## JAMES RIVER SYSTEM—JAMES RIVER, LYNCHBURG, VA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	6.2	5.5	18.2	3.7	1.4	0.9	1.2	0.3	0.2	-0.1	-0.1	2.0
2.....	5.4	4.3	.....	3.2	1.4	0.9	1.1	0.5	0.1	-0.1	-0.1	2.8
3.....	4.0	4.0	.....	2.8	1.5	0.8	0.9	0.5	0.1	-0.1	-0.1	3.4
4.....	3.3	3.8	.....	2.6	1.5	0.8	0.9	0.5	0.1	-0.1	-0.1	3.9
5.....	2.9	3.6	.....	2.4	1.3	0.7	0.6	0.5	0.2	4.0	-0.1	4.4
6.....	2.8	3.4	.....	2.4	1.1	0.7	0.2	0.5	0.2	2.6	-0.1	3.6
7.....	2.7	3.1	.....	2.4	1.3	0.6	0.0	0.7	0.2	1.4	-0.1	3.0
8.....	2.4	2.9	.....	3.7	1.5	0.6	0.0	0.6	0.1	1.0	-0.1	2.7
9.....	2.2	2.8	.....	4.0	1.5	0.6	0.0	0.6	0.1	0.8	-0.1	2.2
10.....	2.0	2.5	.....	3.9	1.4	0.5	0.0	0.6	0.1	0.7	-0.1	2.0
11.....	1.9	2.1	.....	3.8	1.2	0.3	0.2	0.7	0.1	1.0	-0.1	1.6
12.....	1.8	1.8	.....	3.7	1.1	0.3	0.2	0.6	0.0	1.7	-0.1	1.4
13.....	1.7	1.7	.....	3.4	1.0	0.7	0.1	0.6	0.0	1.2	-0.1	1.5
14.....	1.5	1.6	.....	3.1	1.0	1.0	0.1	0.6	0.0	0.8	-0.1	1.8
15.....	1.3	1.5	.....	2.8	1.0	1.4	0.1	0.6	0.0	0.6	-0.1	2.6
16.....	1.3	1.5	.....	2.6	1.0	1.7	0.1	0.6	-0.1	0.4	-0.1	2.7
17.....	1.3	1.5	.....	2.5	0.9	1.4	0.1	0.6	-0.1	0.3	-0.1	3.9
18.....	1.2	1.4	.....	2.3	0.9	1.1	0.0	0.6	-0.1	0.2	-0.1	4.6
19.....	1.2	1.2	.....	2.0	0.9	0.6	0.0	0.5	-0.1	0.0	-0.1	4.4
20.....	1.2	1.1	.....	1.9	0.9	0.4	0.1	0.5	-0.1	0.0	0.4	3.7
21.....	1.5	1.3	.....	1.8	1.0	0.4	0.1	0.5	-0.1	0.0	0.6	3.0
22.....	1.7	1.9	.....	1.7	1.0	0.4	0.1	0.5	-0.1	0.0	0.3	3.4
23.....	1.5	2.2	.....	1.6	0.9	0.4	0.1	0.4	-0.1	-0.1	0.2	2.6
24.....	1.5	2.7	.....	1.5	0.9	0.3	0.0	0.4	-0.1	-0.1	0.2	2.2
25.....	1.3	8.6	.....	1.4	1.1	0.3	0.0	0.3	-0.1	-0.1	0.8	2.0
26.....	1.3	14.2	.....	1.4	1.2	0.7	0.0	0.2	-0.1	-0.1	2.0	1.9
27.....	4.2	8.7	.....	1.4	1.3	1.0	0.0	0.1	-0.1	-0.1	2.8	1.8
28.....	6.4	12.2	2.0	1.4	1.1	0.8	0.0	0.1	-0.1	-0.1	2.5	1.6
29.....	6.7	.....	3.1	1.4	1.0	0.8	0.0	0.2	-0.1	-0.1	2.0	1.4
30.....	5.8	.....	6.4	1.4	1.0	1.0	0.3	0.2	-0.1	-0.1	1.8	1.3
31.....	5.5	.....	4.5	.....	0.9	.....	0.3	0.2	.....	-0.1	.....	1.2
<b>Means.</b>	<b>2.8</b>	<b>3.7</b>	<b>.....</b>	<b>2.5</b>	<b>1.1</b>	<b>0.7</b>	<b>0.2</b>	<b>0.5</b>	<b>0.0</b>	<b>0.5</b>	<b>0.4</b>	<b>2.6</b>
<b>1903</b>												
1.....	1.1	3.7	8.7	5.0	2.7	1.4	3.2	1.1	1.8	1.0	0.4	0.3
2.....	1.1	3.0	6.8	4.1	2.5	1.3	2.7	1.3	2.1	0.6	0.4	0.3
3.....	7.3	2.8	4.5	3.5	2.4	1.2	2.1	1.5	1.9	0.4	0.4	0.3
4.....	7.6	3.9	3.8	3.4	2.3	1.2	1.7	1.5	1.7	0.3	0.4	0.3
5.....	6.3	7.6	2.9	3.4	2.1	1.2	2.9	1.5	1.4	0.3	0.7	0.3
6.....	4.2	5.2	2.7	3.4	2.1	1.3	2.4	1.3	1.2	0.3	0.9	0.3
7.....	3.5	3.9	2.6	3.4	2.1	8.4	2.2	1.1	1.0	0.3	0.6	0.3
8.....	3.0	3.4	3.4	3.2	2.0	6.7	1.8	1.0	0.9	2.0	0.5	0.3
9.....	2.6	2.9	3.8	3.8	1.8	4.5	1.7	1.0	0.9	1.8	0.5	0.3
10.....	2.2	2.7	4.0	4.2	1.8	3.3	1.4	1.2	0.9	1.0	0.5	0.3
11.....	2.2	2.5	4.2	3.9	1.8	3.0	1.4	1.1	0.9	0.8	0.5	0.3
12.....	2.2	3.6	4.2	3.5	1.7	2.9	1.4	0.8	0.8	0.7	0.5	0.3
13.....	2.2	4.0	4.1	3.0	1.7	2.7	1.8	0.6	0.8	0.7	0.4	0.3
14.....	2.1	3.3	3.9	3.0	1.6	2.4	3.6	0.6	0.8	0.7	0.4	0.3
15.....	2.0	3.0	3.4	2.9	1.5	2.2	2.8	0.8	0.6	0.6	0.4	0.3
16.....	1.7	3.2	3.0	2.7	1.3	2.0	2.2	0.9	0.5	0.6	0.4	0.3
17.....	1.5	11.2	2.5	2.5	1.1	1.7	2.0	1.0	4.6	0.6	0.4	0.3
18.....	1.3	9.4	2.3	2.5	1.1	1.2	1.4	0.8	6.0	0.6	0.4	0.3
19.....	1.1	5.7	2.3	2.5	1.1	1.0	1.2	0.9	4.7	0.6	0.4	0.3
20.....	1.0	4.0	2.2	2.5	1.0	1.0	1.0	1.2	3.5	0.6	0.4	0.3
21.....	3.0	3.6	2.0	2.8	1.0	1.0	1.0	0.8	2.9	0.5	0.3	0.4
22.....	2.5	3.2	3.4	2.7	1.0	1.0	1.0	0.4	1.7	0.5	0.3	0.4
23.....	2.0	3.0	6.8	2.5	1.0	1.0	1.0	0.2	1.0	0.4	0.3	0.4
24.....	1.8	2.8	12.7	2.3	1.0	1.0	0.9	0.2	1.0	0.4	0.3	0.3
25.....	1.8	2.6	7.6	2.3	1.0	1.2	0.8	0.2	1.0	0.4	0.3	0.3
26.....	1.8	2.5	5.0	3.8	1.0	1.6	0.7	0.2	0.9	0.4	0.3	0.3
27.....	1.6	2.4	4.1	4.7	1.0	3.0	0.7	0.2	0.9	0.4	0.3	0.3
28.....	3.4	5.0	3.4	4.5	1.0	4.2	0.5	0.1	1.2	0.4	0.3	0.3
29.....	4.6	.....	3.0	3.9	1.2	4.7	0.4	0.1	1.0	0.4	0.3	0.3
30.....	4.9	.....	3.5	3.4	1.4	4.1	0.4	2.5	1.0	0.4	0.3	0.3
31.....	4.3	.....	6.3	.....	1.4	.....	0.9	1.4	.....	0.4	.....	0.3
<b>Means.</b>	<b>2.8</b>	<b>4.1</b>	<b>4.3</b>	<b>3.3</b>	<b>1.5</b>	<b>2.4</b>	<b>1.6</b>	<b>0.9</b>	<b>1.7</b>	<b>0.6</b>	<b>0.4</b>	<b>0.3</b>

## JAMES RIVER SYSTEM—JAMES RIVER, LYNCHBURG, VA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	0.3	Frozen.	1.7	1.8	3.0	2.9	1.8	0.9	0.3	0.0	0.0	0.1
2.....	0.3	-----	3.3	1.8	2.6	4.0	1.7	0.9	0.3	-0.1	0.0	0.1
3.....	0.3	-----	3.0	1.8	2.2	6.9	1.5	0.9	0.3	-0.1	0.0	0.1
4.....	Frozen.	-----	2.7	1.8	2.1	5.7	1.5	1.1	0.3	-0.2	0.0	0.1
5.....	-----	-----	2.3	1.8	2.0	4.4	1.4	1.2	0.3	-0.3	0.1	0.4
6.....	-----	0.3	2.3	1.8	2.0	3.0	1.2	1.2	0.3	-0.3	0.1	0.5
7.....	-----	0.3	2.5	1.7	2.0	2.4	1.1	1.1	0.2	-0.4	0.1	0.5
8.....	-----	1.7	6.6	1.7	2.2	2.8	1.0	1.1	0.2	-0.4	0.1	0.7
9.....	0.3	3.0	4.9	2.0	2.3	2.3	1.0	1.0	0.2	-0.4	0.1	0.6
10.....	0.3	2.6	3.8	2.2	2.5	2.3	1.0	1.0	0.2	-0.5	0.1	0.6
11.....	0.3	2.0	3.0	2.0	2.2	2.2	1.0	1.0	0.2	-0.5	0.1	0.5
12.....	0.4	1.6	2.6	2.0	2.0	2.0	1.0	1.0	0.2	-0.5	0.1	0.5
13.....	0.5	1.3	2.4	2.0	2.0	1.8	1.0	1.0	0.2	-0.5	0.1	0.4
14.....	0.5	1.0	2.2	2.0	2.0	1.7	1.0	0.8	0.2	-0.5	0.3	0.4
15.....	0.5	0.8	2.0	2.0	2.0	1.6	1.0	0.6	0.1	-0.5	0.3	0.4
16.....	0.5	0.8	2.0	2.0	2.2	1.5	0.8	0.5	0.1	-0.5	0.3	0.3
17.....	0.5	Frozen.	2.0	1.8	2.2	1.5	0.8	0.5	0.1	-0.5	0.2	0.3
18.....	0.5	-----	2.0	1.8	2.2	1.8	0.8	0.5	0.1	-0.5	0.2	0.3
19.....	0.5	-----	1.9	1.8	6.9	2.3	0.8	0.5	0.1	-0.5	0.2	0.3
20.....	0.5	-----	1.8	1.7	6.2	2.0	0.7	0.5	0.1	-0.5	0.2	0.2
21.....	0.5	-----	1.8	1.7	4.8	2.2	0.7	0.5	0.1	0.2	0.2	0.2
22.....	0.6	2.6	1.8	1.7	4.0	2.2	0.7	0.5	0.1	0.2	0.2	0.2
23.....	2.4	3.8	1.8	1.5	3.4	2.1	0.8	0.4	0.0	0.2	0.1	0.2
24.....	3.7	3.3	2.0	1.3	2.6	2.0	0.8	0.4	0.0	0.2	0.1	0.2
25.....	2.8	2.5	2.8	1.2	2.3	1.8	0.9	0.4	0.0	0.1	0.1	0.3
26.....	2.2	1.7	2.5	1.1	2.1	1.6	1.0	0.4	0.0	0.1	0.1	0.3
27.....	1.8	1.1	2.4	1.4	2.6	1.4	1.0	0.3	0.0	0.1	0.1	0.5
28.....	1.5	1.6	2.2	6.1	2.4	1.4	1.0	0.3	0.0	0.1	0.1	0.9
29.....	1.5	1.9	2.0	5.3	2.2	1.5	1.0	0.3	0.0	0.0	0.1	0.9
30.....	Frozen.	-----	2.0	3.9	2.0	1.7	1.0	0.3	0.0	0.0	0.1	0.8
31.....	-----	-----	1.9	-----	2.0	-----	1.0	0.3	-----	0.0	-----	0.6
Means.	1.0	1.8	2.5	2.1	2.7	2.4	1.0	0.7	0.1	-0.2	0.1	0.4

## JAMES RIVER SYSTEM—JAMES RIVER, COLUMBIA, VA.

1904												
1.....							4.5	2.9	2.2	2.1	1.9	2.1
2.....							4.5	3.5	2.3	2.0	2.0	2.1
3.....							4.0	4.7	2.3	1.9	2.0	2.2
4.....							3.5	3.7	2.2	1.8	2.0	2.2
5.....							3.3	2.9	2.2	1.7	1.9	2.2
6.....							3.1	6.0	2.1	1.8	1.9	2.7
7.....							3.0	4.0	2.2	1.9	1.9	2.9
8.....							3.2	4.3	2.1	1.9	2.0	2.8
9.....							3.4	2.6	2.1	1.9	1.7	2.8
10.....							3.8	2.7	2.2	1.7	2.0	2.8
11.....							4.0	2.9	2.6	1.8	2.0	2.7
12.....							2.9	2.9	2.2	1.6	2.0	2.5
13.....							2.9	3.5	2.1	1.8	2.1	2.2
14.....							3.0	3.0	2.0	1.8	2.7	2.2
15.....							3.0	2.6	4.3	1.8	2.5	2.4
16.....							2.9	2.3	3.1	1.9	2.4	2.3
17.....							2.8	2.4	2.5	1.9	2.3	2.4
18.....							2.8	2.1	2.3	1.8	2.2	2.3
19.....							2.4	3.4	2.3	1.7	2.2	2.4
20.....							2.2	3.4	2.1	1.8	2.1	2.3
21.....							2.2	2.2	2.1	1.8	2.0	2.3
22.....							2.2	2.1	2.3	2.1	2.2	2.3
23.....							2.7	2.9	2.2	2.1	2.1	2.3
24.....							3.5	2.9	2.1	2.0	2.2	2.6
25.....							3.0	2.7	2.1	1.9	2.2	3.4
26.....							2.8	2.6	2.0	2.0	2.1	3.1
27.....							2.9	2.4	2.0	1.9	2.1	3.2
28.....							3.5	2.3	1.9	1.7	2.0	3.6
29.....							3.5	2.3	2.0	1.9	2.0	3.4
30.....							3.5	2.1	2.2	1.9	2.0	3.3
31.....							3.2	2.1	-----	1.9	-----	3.2
Means.							3.1	3.0	2.3	1.9	2.1	2.6

## DESCRIPTION OF RIVER GAGES, ETC.

## JAMES RIVER SYSTEM—JAMES RIVER, RICHMOND, VA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	Frozen.	-1.0	1.8	0.8	-0.4	-0.6	-1.2	-0.7	-1.0	0.3	-1.0	0.6
2.....	Frozen.		<sup>a</sup> 3.8	0.4	-0.6	-1.0	-1.2	0.0	-1.2	0.5	-1.0	0.4
3.....			8.6	0.0	-0.6	-1.1	-1.0	-0.6	-1.2	1.0	-0.9	0.6
4.....			3.6	-0.4	-1.0	-1.2	-1.0	-1.0	-1.2	1.4	-0.2	0.0
5.....		-0.7	3.0	-0.7	-1.0	-1.2	-1.2	-1.2	-1.0	1.0	-0.6	3.5
6.....	-1.8	0.6	2.6	-0.7	-0.9	-1.2	-1.2	-1.2	-1.0	0.8	0.5	3.8
7.....	-1.5	0.8	1.7	-0.6	-1.2	-0.4	-1.2	-1.2	-1.1	0.6	0.1	3.3
8.....	-1.8	-0.6	0.7	-0.5	-1.1	-0.6	-0.9	-1.2	-1.1	-0.2	0.4	1.4
9.....	-1.8	-0.7	-0.4	-0.8	-1.2	-0.3	-0.6	-1.2	-1.2	-0.4	-0.2	0.9
10.....	-2.0	-0.9	0.0	-0.6	-1.2	0.3	-0.8	-1.2	-1.0	1.4	-0.3	0.6
11.....	-2.0	-1.4	0.8	-0.6	-1.2	0.0	-1.0	-1.2	-0.9	1.0	-0.6	0.0
12.....	-1.7	-1.2	-0.3	-0.6	-1.2	-1.3	-1.2	-1.2	-1.0	0.4	-0.8	-0.4
13.....	-1.6	-1.0	0.2	-0.6	-1.2	-0.8	-1.2	-1.2	-0.8	0.5	-0.8	-0.6
14.....	-0.7	4.4	-0.3	-1.2	-1.2	-0.6	-1.2	-1.2	-0.6	0.2	-1.0	-1.0
15.....	-0.7	4.6	-0.6	-0.8	-1.2	-0.4	-1.2	-1.2	-0.6	-0.9	-1.0	-1.2
16.....	-1.0	4.4	-0.2	-1.3	-1.2	0.1	-1.2	-0.8	-0.4	-0.9	-1.2	-1.2
17.....	-0.7	3.7	-0.5	-1.2	-1.2	-0.6	-1.2	-0.8	-1.6	-1.0	-1.2	-1.0
18.....	-0.5	0.9	-0.1	-1.0	-1.2	6.2	-1.2	-1.0	-0.6	-1.2	-0.8	-1.0
19.....	-0.6	0.9	-0.3	2.8	-0.6	3.9	-1.2	-0.9	-1.0	-1.2	-1.0	-0.8
20.....	2.0	0.5	0.4	5.3	-1.2	2.4	-1.2	-1.2	-1.0	-1.2	-1.0	-0.8
21.....	7.5	0.0	1.9	2.5	-0.8	1.3	-1.2	-1.2	-1.0	-1.0	-1.0	-0.7
22.....	7.5	1.5	5.6	3.0	-1.2	0.8	-1.2	-1.2	-1.0	-1.1	-1.1	-1.0
23.....	4.0	3.8	4.8	3.0	-0.9	0.6	-1.2	-1.2	-0.8	-1.0	-1.1	-1.0
24.....	1.8	5.7	2.5	1.4	-1.0	-0.4	-1.2	-1.2	-0.6	1.0	-1.0	-1.0
25.....	1.2	3.6	2.1	0.8	-1.0	0.6	-1.2	-1.2	-0.4	0.4	-0.8	-1.0
26.....	0.8	2.4	0.7	0.6	-0.1	-0.2	-1.2	-1.2	-0.4	3.0	-0.2	-1.0
27.....	-0.2	1.2	0.8	0.2	0.2	-0.6	-1.2	-1.2	-0.6	1.4	0.8	-0.8
28.....	-0.4	0.8	1.0	0.1	0.6	-0.7	-1.2	-1.2	-0.8	0.9	<sup>b</sup> 9.6	-0.7
29.....	-0.5		0.6	0.2	0.4	-1.0	1.0	-0.9	-1.0	0.8	6.7	-0.6
30.....	-0.6		0.9	-0.4	-0.2	-1.2	-0.1	-0.6	-1.0	-0.8	0.9	-0.6
31.....	-0.6		0.5		-0.7		-0.6	-1.0		-1.0		-0.8
Means.	0.2	1.3	1.5	0.3	-0.8	0.0	-1.0	-1.0	-0.8	0.1	0.0	-0.1
<b>1901</b>												
1.....	-0.8	-1.0	-0.6	2.8	-0.2	3.6	-1.0	0.2	1.0	2.8	-0.4	0.5
2.....	-0.9	-0.8	-0.6	1.2	-0.4	3.2	-0.8	0.5	2.4	2.3	-0.1	0.5
3.....	-0.9	-0.8	-0.4	1.6	-0.2	2.8	-1.0	0.5	3.0	1.9	-0.2	0.4
4.....	-0.7	-1.0	-0.8	8.8	-0.4	2.0	-1.0	0.8	2.2	1.3	0.3	1.0
5.....	-0.7	-1.0	-0.8	8.6	-0.7	0.8	-1.0	0.5	1.8	1.0	0.3	0.9
6.....	-0.7	-1.0	-0.5	6.5	-1.0	0.6	-1.2	1.0	0.3	0.7	-0.1	0.5
7.....	-0.9	-1.0	-0.5	3.3	-1.0	0.6	-1.2	4.0	0.2	0.4	-0.3	0.5
8.....	-0.9	-1.0	-0.5	2.4	-0.4	1.2	-1.2	8.2	1.4	0.5	-0.3	0.3
9.....	-0.9	-0.8	-0.5	0.8	1.2	2.3	-0.8	4.5	0.9	0.3	-0.2	0.1
10.....	-1.0	-0.8	-0.4	1.0	1.8	2.6	0.5	1.6	0.9	0.0	0.2	0.5
11.....	-1.0	-1.0	-0.6	0.8	1.7	2.2	0.0	1.6	0.7	0.0	0.4	0.5
12.....	-0.7	-1.0	-0.8	0.6	2.7	1.2	0.4	2.0	0.4	-0.2	0.5	0.5
13.....	6.5	-0.7	<sup>c</sup> 4.1	0.5	0.6	0.6	0.6	2.4	0.0	-0.2	0.5	0.5
14.....	5.8	-0.5	3.2	0.2	0.3	-0.1	0.4	4.3	0.0	-0.2	0.6	0.5
15.....	3.2	-0.5	2.4	8.9	0.3	-0.3	1.0	5.3	-0.2	-0.4	0.6	0.9
16.....	2.6	-0.5	1.1	8.6	-0.1	0.4	1.3	9.2	-0.3	-0.3	0.5	6.6
17.....	0.7	-0.4	0.6	5.7	-0.2	8.8	1.8	6.0	-0.3	-0.5	0.4	12.3
18.....	0.1	-0.6	0.5	3.4	-0.2	<sup>d</sup> 9.1	2.0	4.3	-0.4	-0.6	0.5	7.5
19.....	-0.5	-0.6	0.2	3.3	-0.4	4.4	1.8	3.8	1.3	-0.6	0.5	2.3
20.....	-1.0	-0.6	-0.2	3.0	-0.4	2.6	2.0	2.5	2.6	-0.5	0.4	1.5
21.....	-1.2	-0.4	-0.2	5.6	-0.7	1.4	1.7	1.9	1.4	-0.7	0.4	1.2
22.....	-1.2	-0.5	-0.3	<sup>e</sup> 11.7	-0.5	1.0	1.4	1.0	1.2	-0.8	0.5	4.3
23.....	-1.2	-0.5	-0.5	13.4	10.8	0.8	1.0	0.5	0.8	-1.0	0.4	6.2
24.....	-1.2	-0.5	-0.3	6.4	<sup>f</sup> 19.0	0.2	0.8	0.9	0.6	-1.0	0.4	9.4
25.....	-1.0	-0.5	-0.6	3.9	14.5	-0.2	0.5	1.2	0.6	-0.9	0.5	4.3
26.....	-1.0	-0.4	-0.6	2.8	6.1	-0.6	0.5	1.7	0.2	-0.4	0.5	2.0
27.....	-1.0	-0.4	0.8	1.8	3.8	-0.4	0.2	2.0	-0.3	0.1	0.5	1.8
28.....	-1.0	-0.4	2.4	1.6	3.2	-0.6	0.5	1.4	-0.5	0.2	0.4	2.2
29.....	-0.8		3.2	1.2	5.2	-0.7	0.5	1.6	-0.2	0.2	0.5	2.5
30.....	-1.0		3.1	0.8	5.2	-1.0	0.2	1.0	0.4	-0.1	0.5	12.2
31.....	-1.0		3.3		3.8		0.1	1.0		-0.2		<sup>g</sup> 21.9
Means.	-0.1	-0.7	0.5	4.0	2.4	1.6	0.3	2.5	0.7	0.1	0.4	3.4

<sup>a</sup> 11.4 at 10.30 p. m.  
<sup>b</sup> 11.2 at 4.30 p. m.

<sup>c</sup> 5.0 during day.  
<sup>d</sup> 11.3 during morning.

<sup>e</sup> 14.0 at 10 p. m.  
<sup>f</sup> 19.3 at 6 a. m.

<sup>g</sup> 28.2 at 4 p. m.

## JAMES RIVER SYSTEM—JAMES RIVER, RICHMOND, VA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	20.5	1.9	13.0	3.2	0.7	0.6	0.3	0.1	0.0	-0.5	0.0	1.0
2.....	10.8	3.0	<sup>a</sup> 18.0	1.9 <sup>a</sup>	0.4	0.6	0.2	0.3	-0.2	-0.6	0.4	3.3
3.....	4.2	3.2	17.9	1.6	0.5	0.6	0.3	0.3	-0.2	0.3	0.5	2.4
4.....	2.8	3.5	8.0	1.4	0.5	0.5	0.3	0.5	0.3	0.6	0.4	6.1
5.....	1.8	3.4	4.5	1.1	0.5	0.5	0.3	0.7	0.5	0.7	0.5	3.6
6.....	1.7	2.0	4.9	0.8	0.5	0.5	0.3	1.0	0.2	<sup>b</sup> 9.5	0.3	5.9
7.....	1.2	1.4	3.7	0.8	0.7	0.4	0.9	1.0	0.0	8.7	-0.1	3.1
8.....	1.2	0.9	2.7	1.8	0.7	0.3	1.1	0.6	-0.4	0.8	0.0	1.9
9.....	1.0	0.8	2.4	6.6	0.9	0.3	0.5	0.5	-0.9	0.2	-0.3	1.1
10.....	1.0	0.7	3.7	4.5	1.3	0.3	0.4	0.5	-1.0	-0.2	-0.5	1.0
11.....	1.0	1.0	3.7	3.7	0.5	0.3	0.4	0.3	(c)	-0.3	-0.5	0.5
12.....	0.6	1.0	4.2	3.0	0.6	0.4	0.3	-0.3	-0.8	0.6	-0.4	0.4
13.....	0.5	0.9	3.5	2.7	0.5	0.4	0.2	-0.3	-0.9	4.0	-0.6	0.7
14.....	0.5	0.9	3.0	2.0	0.6	0.4	0.3	-0.1	-1.0	0.6	-0.7	0.6
15.....	0.4	0.9	2.4	1.5	0.6	0.4	0.1	-0.1	-1.0	0.2	-0.7	0.7
16.....	0.4	0.9	3.7	0.6	0.6	0.4	0.0	0.2	-0.9	0.0	-0.6	0.9
17.....	0.5	0.6	4.5	0.4	0.6	<sup>d</sup> 4.2	-0.1	0.8	-0.8	0.0	0.4	1.9
18.....	0.6	1.1	4.7	0.8	0.6	3.8	-0.1	0.5	-0.7	0.3	1.2	3.4
19.....	0.4	0.8	6.8	0.7	0.6	0.8	-0.1	0.0	-0.2	0.4	2.3	3.5
20.....	0.5	0.6	3.2	0.5	0.6	0.6	0.0	0.3	0.5	0.2	1.8	2.6
21.....	0.5	0.6	2.6	0.4	0.6	0.4	0.0	0.5	0.6	0.7	0.5	1.8
22.....	1.0	1.7	2.2	0.8	0.6	0.6	0.2	0.6	0.8	0.6	0.0	1.9
23.....	3.2	3.3	1.4	0.6	0.5	0.5	0.4	0.9	0.4	-0.3	0.1	2.0
24.....	1.6	3.8	1.2	0.7	0.5	0.4	0.6	0.3	-0.6	-0.4	-0.1	1.1
25.....	1.0	3.7	1.0	0.8	0.6	0.4	0.3	0.0	(c)	-0.3	0.0	0.9
26.....	0.5	11.7	0.9	0.6	0.6	0.4	0.2	-0.5	(c)	-0.3	1.8	0.8
27.....	1.3	<sup>e</sup> 16.3	1.7	0.3	0.6	0.5	0.1	-0.5	-0.3	-0.4	3.6	0.6
28.....	2.3	15.3	1.4	0.4	0.6	0.3	-0.1	-0.3	0.6	-0.4	1.2	0.5
29.....	1.9	-----	1.5	0.6	0.7	0.2	-0.3	-0.4	-0.3	1.3	1.2	0.4
30.....	3.6	-----	2.2	0.6	0.6	0.2	-0.3	-0.3	-0.4	0.5	0.6	0.4
31.....	2.7	-----	3.0	-----	0.6	-----	0.0	-0.1	-----	0.0	-----	0.4
Means.	2.3	3.0	4.4	1.5	0.6	0.7	0.2	0.2	-0.2	0.9	0.4	1.8
<b>1903</b>												
1.....	0.4	2.6	5.5	6.4	2.0	1.4	2.4	-0.1	1.1	0.0	-0.2	0.0
2.....	0.3	2.2	8.8	5.7	1.7	0.4	1.4	-0.3	1.2	-0.1	-0.2	-0.1
3.....	1.9	2.0	7.4	3.8	1.6	-0.1	0.6	-0.2	1.3	0.0	0.0	-0.3
4.....	<sup>f</sup> 11.4	2.1	3.9	2.6	1.4	-0.4	0.3	-0.1	0.8	-0.1	0.0	-0.4
5.....	10.1	4.1	2.9	2.0	0.8	-0.4	0.2	0.0	0.4	-0.2	0.1	-0.4
6.....	6.3	3.7	2.1	1.6	0.4	-0.1	0.4	0.1	0.0	-0.2	0.2	-0.3
7.....	3.7	4.7	1.5	1.6	0.3	1.4	0.7	0.0	0.1	-0.2	0.2	-0.4
8.....	2.0	2.4	1.3	1.5	0.3	<sup>g</sup> 12.8	0.8	0.2	0.3	-0.1	0.4	-0.3
9.....	1.2	1.6	1.6	2.0	0.3	11.4	0.6	0.0	0.1	0.2	0.5	-0.3
10.....	0.7	1.2	2.3	2.1	0.1	4.8	0.4	0.1	0.2	0.4	0.4	-0.2
11.....	0.5	0.9	2.0	2.2	0.4	3.1	0.3	0.2	0.0	2.0	0.3	-0.1
12.....	0.7	1.6	2.3	2.3	0.5	3.4	0.2	0.3	0.4	1.4	0.3	-0.1
13.....	0.5	2.0	2.3	2.6	0.6	3.0	0.5	0.5	0.2	0.2	0.1	-0.5
14.....	0.0	2.5	2.4	5.1	0.7	2.2	1.4	0.9	0.3	0.2	0.1	-0.2
15.....	0.2	2.5	2.4	7.1	0.8	1.3	0.8	1.2	0.3	0.1	0.0	-0.2
16.....	0.5	2.2	2.4	4.9	0.9	0.8	0.5	1.5	0.0	-0.1	0.0	-0.2
17.....	0.8	7.1	2.3	3.7	0.7	1.4	0.4	0.6	0.0	-0.2	-0.1	-0.3
18.....	1.1	11.9	1.9	2.7	0.4	0.5	0.4	0.3	0.0	-1.2	0.3	-0.3
19.....	0.7	11.5	1.6	2.3	-0.1	0.3	0.2	0.2	0.3	-0.5	0.4	-0.2
20.....	0.5	5.4	1.3	1.4	-0.1	-0.1	0.1	0.4	2.0	-0.1	0.3	0.0
21.....	0.6	2.6	0.8	1.4	-0.2	-0.2	-0.1	0.3	1.0	0.0	0.3	0.0
22.....	2.8	1.8	1.4	1.5	-0.2	-0.1	-0.3	0.3	0.5	0.0	0.4	0.1
23.....	1.8	1.6	7.5	1.0	-0.2	-0.1	-0.2	0.3	0.3	0.0	0.2	0.0
24.....	1.4	1.0	12.7	0.7	-0.1	0.0	-0.2	0.0	0.5	0.4	0.1	-0.1
25.....	0.9	0.8	<sup>h</sup> 13.0	0.5	0.0	0.2	-0.1	0.0	0.7	0.9	0.1	0.0
26.....	1.0	0.8	12.5	0.6	0.3	0.2	-0.1	-0.2	0.6	0.5	0.1	0.3
27.....	0.8	0.7	5.6	1.0	0.4	2.7	0.1	0.2	0.4	0.0	0.2	-0.1
28.....	0.9	0.9	3.5	1.3	0.6	1.4	0.5	0.1	0.2	0.0	0.2	-0.1
29.....	3.9	-----	2.7	3.8	1.0	2.6	0.5	2.2	0.0	-0.1	-0.5	0.0
30.....	3.2	-----	3.5	2.7	1.0	4.2	0.0	1.5	0.2	-0.2	0.3	0.0
31.....	3.5	-----	8.2	-----	1.0	-----	-1.2	5.0	-----	-0.2	-----	0.1
Means.	2.1	3.0	4.2	2.6	0.6	1.9	0.4	0.5	0.4	0.1	0.2	-0.1

<sup>a</sup>19.0 during day.<sup>b</sup>12.0 at 4 p. m.<sup>c</sup>Gage dry.<sup>d</sup>8.5 at 5 p. m.<sup>e</sup>17.0 at 8 p. m.<sup>f</sup>11.5 at 4 p. m.<sup>g</sup>14.7 at 11 p. m.<sup>h</sup>14.0 at 11 p. m.

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSISSIPPI RIVER SYSTEM—RED CEDAR RIVER, CEDAR RAPIDS, IOWA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1								3.1	2.9	2.8	2.9	2.6
2								3.1	3.0	2.8	3.0	2.7
3								3.1	3.0	2.8	3.0	2.6
4								3.1	3.1	2.7	3.0	2.6
5								3.1	3.2	2.8	3.0	2.6
6								3.1	3.1	2.8	3.0	2.6
7								3.1	3.1	2.8	2.9	2.6
8								3.1	3.1	2.7	3.0	2.6
9								3.1	3.0	2.9	2.9	2.6
10								3.1	3.0	2.9	2.9	2.7
11								3.1	3.0	2.8	2.9	2.6
12								3.1	3.0	2.9	2.9	2.6
13								3.0	2.9	3.0	2.8	2.7
14								3.0	2.9	3.0	2.9	2.7
15								3.0	2.9	3.0	2.9	2.7
16								2.9	2.9	3.0	2.8	2.6
17								3.0	3.0	3.0	2.8	2.7
18								3.0	3.0	3.0	3.0	2.8
19								3.0	2.9	3.0	2.9	2.8
20								3.0	2.9	3.0	2.8	2.8
21								3.0	2.8	3.0	2.8	2.8
22								3.0	2.8	3.0	2.8	2.8
23								3.0	2.8	3.0	2.8	2.8
24								2.9	2.8	3.0	2.8	2.8
25								2.9	2.8	3.0	2.8	2.8
26								2.8	2.9	3.0	2.7	2.8
27								2.9	2.8	3.0	2.7	2.8
28								2.8	2.8	3.0	2.7	Frozen.
29								3.0	2.8	3.0	2.7	4.3
30								3.0	2.8	3.0	2.6	Frozen.
31								3.0		3.0		3.3
Means.								3.0	2.9	2.9	2.8	2.8

## MISSISSIPPI RIVER SYSTEM—IOWA RIVER, IOWA CITY, IOWA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1								-0.8	-1.3	-1.3	-1.5	-1.7
2								-0.9	-0.7	-1.4	-1.3	-1.8
3								-0.8	-1.0	-1.5	-1.3	-1.7
4								-1.1	-1.2	-1.4	-1.3	-1.8
5								-1.1	-1.1	-1.3	-1.3	-1.4
6								-1.0	-0.4	-1.2	-1.2	-1.6
7								-1.2	-0.2	-1.2	-1.3	-1.7
8								-1.0	-0.3	-1.3	-1.3	-1.7
9								-1.0	-0.4	-1.2	-1.1	-1.6
10								1.0	-0.5	-1.0	-1.2	-1.6
11								-1.0	-0.6	-1.3	-1.3	-1.7
12								-1.0	-0.7	-1.1	-1.3	-1.7
13								-1.0	-0.7	-1.2	-1.2	-1.3
14								-1.1	-0.8	-1.2	-1.2	Frozen.
15								-1.0	-0.9	-1.3	-1.4	
16								-1.1	0.9	-1.1	-1.1	
17								-1.1	-1.0	-1.3	-1.2	
18								-1.2	-1.1	-1.2	-1.2	
19								-1.2	-1.0	-1.1	-1.2	
20								-1.2	-1.1	-1.2	-1.1	
21								-1.4	-1.2	-1.1	-1.3	
22								-1.0	-1.1	-1.3	-1.6	
23								-1.0	-1.1	-1.4	-1.4	
24								-1.2	-1.0	-1.5	-1.2	
25								-1.2	-1.2	-1.6	-1.6	
26								-1.3	-1.3	-1.3	-1.7	
27								-1.2	-1.2	-1.4	-1.5	
28								-1.3	-1.4	-1.4	-1.5	
29								-1.1	-1.2	-1.4	-1.6	
30									-1.3	-1.4	-1.4	
31								-1.3		-1.4		-1.4
Means.								-1.1	-0.9	-1.3	-1.3	



## MISSISSIPPI RIVER SYSTEM—DES MOINES RIVER, DES MOINES, IOWA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1		Frozen.	Frozen.	4.1	3.4	3.3						
2				4.1	3.4	3.2						
3				4.0	3.4	3.0						
4				3.9	3.4	2.8						
5				3.8	3.3	2.8						
6				4.3	3.3	2.8						
7				4.0	3.4	2.8						
8				4.0	3.4	2.7						
9				3.9	3.4	2.7						
10				4.0	3.4	2.8						
11			4.9	4.0	3.4	2.8						
12			6.6	4.0	3.4	2.8						
13			6.9	3.8	3.4	2.8						
14			5.6	3.7	3.4	2.8						
15			4.9	3.6	3.5	2.8						
16			4.9	3.6	3.5	2.8						
17			4.0	3.7	3.5	2.7						
18			3.9	3.8	3.5	2.7						
19			3.9	3.8	3.5	3.0						
20			3.8	3.8	3.6	3.8						
21			3.8	3.8	3.5	3.6						
22			3.8	3.6	3.3	3.6						
23			3.8	3.5	3.3	3.5						
24			3.8	3.6	3.3	3.4						
25			3.9	3.6	3.4	3.4						
26			3.8	3.5	3.4	3.4						
27			3.8	3.5	3.4	3.6						
28			4.1	3.5	3.4	3.4						
29			5.3	3.4	3.5	3.3						
30			4.6	3.5	3.5	3.3						
31			4.2		3.5							
Means.			4.5	3.8	3.4	3.1						
<b>1901</b>												
1		Frozen.	Frozen.	7.8	5.4	4.0						
2			3.2	7.6	5.2	3.9						
3			3.2	7.3	5.1	3.9						
4			3.2	7.3	5.2	3.9						
5			Frozen.	7.2	5.2	3.8						
6				7.4	5.0	3.8						
7			3.2	7.2	5.0	3.8						
8			3.6	7.1	5.0	3.8						
9			3.8	7.0	5.0	3.8						
10			3.8	6.8	5.0	4.0						
11			3.8	6.7	4.8	4.0						
12			3.9	6.6	4.8	3.9						
13			3.9	6.4	4.7	3.9						
14			3.9	6.2	4.5	3.8						
15			4.0	6.1	4.3	3.8						
16			4.4	6.0	4.2	3.8						
17			6.0	6.0	4.1	3.8						
18			7.0	5.9	4.0	3.8						
19			8.7	5.8	4.0	3.8						
20			9.4	5.6	4.0	3.8						
21			10.2	5.6	4.0	3.8						
22			9.5	5.6	4.0	3.8						
23			7.6	5.5	4.0	3.7						
24			7.8	5.5	4.0	3.6						
25			7.9	5.5	4.0	3.6						
26			8.0	5.4	4.0	3.6						
27			8.0	5.4	4.0	3.6						
28			8.2	5.4	4.0	3.6						
29			7.9	5.4	4.0	3.6						
30			7.8	5.4	4.0	3.6						
31			7.9		4.0							
Means.			6.1	6.3	4.5	3.8						

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSISSIPPI RIVER SYSTEM—DES MOINES RIVER, DES MOINES, IOWA—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1		Frozen.	2.3	4.0	3.4	3.6						
2			2.3	4.1	3.2	3.6						
3			2.3	4.1	3.0							
4			2.3	4.1	3.0							
5			2.3	4.0	2.8							
6			2.3	4.0	2.7		7.2					
7			2.3	4.0	2.9		9.0					
8			2.9	3.9	3.0	3.8	11.0					
9			3.3	3.9	3.1	4.0	15.7					
10			3.7	3.9	3.4	4.0	21.0					
11			4.8	3.9	3.4	3.8	20.5					
12			5.0	3.8	3.7	3.2	19.8					
13			5.0	3.8	3.9	3.2	18.0					
14			4.9	3.8	4.0	3.5	17.0					
15			4.8	3.8	4.1	7.2	15.5	6.3				
16		Frozen.	3.8	3.7	3.7	7.7	13.5	11.3				
17			3.8	3.7	3.7	7.0		12.2				
18				3.8	3.6	6.2		13.0				
19			4.8	3.8	3.6	5.6	11.0	12.8				
20			4.8	3.8	3.6	5.0	11.0	12.1				
21			4.8	3.7	3.6	4.8	10.0	12.1				
22			4.7	3.7	3.8	4.5		12.6				
23			4.7	3.7	3.7	4.7		12.5				
24			4.6	3.7	3.6	4.5		12.1				
25			4.6	3.7	3.6	4.5		12.2				
26			4.5	3.7	3.6	4.9		11.4				
27			4.5	3.8	3.7	4.6		10.2				
28			4.4	3.8	3.7	4.2						
29			4.3	3.8	3.7	4.0						
30			4.1	3.8	3.6	4.2						
31			4.0		3.6							
<b>Means.</b>			3.9	3.8	3.5	4.7						
<b>1903</b>												
1		2.4	4.8	6.2	5.1	21.0						
2		2.9	5.2	6.1	5.1	19.2						
3		3.3	5.5	6.0	5.4	17.6						
4		3.3	5.3	6.0	6.0	16.5						
5		3.3	5.3	6.0	6.1	15.5						
6		3.3	5.4	6.0	6.1	14.5						
7		3.3	5.2	5.8	6.2	13.7						
8		3.3	5.7	5.6	6.0	12.8						
9		Frozen.	5.8	5.5	6.0	12.0						
10		3.3	7.2	5.2	5.7	11.5						
11		3.1	8.0	5.0	5.3	10.5						
12		3.0	9.2	5.0	6.0	9.5						
13		3.9	9.7	4.9	8.0	8.8						
14		2.9	10.0	5.2	9.5	8.1						
15		2.8	9.7	5.2	11.0	7.5						
16		Frozen.	8.7	5.5	11.3	7.2						
17			8.5	5.5	10.9	6.7						
18			8.2	5.7	10.0	6.2						
19			8.2	5.8	9.2	7.2						
20			8.2	5.8	9.0	7.1						
21			8.2	5.9	8.5	7.0						
22			7.9	6.1	8.0	7.6						
23		2.8	7.6	6.3	9.8	7.8						
24		2.9	7.2	6.2	9.0	7.5						
25		2.8	7.0	5.8	9.5	7.1						
26		2.8	6.6	5.5	10.0	6.9						
27		3.2	6.4	5.2	13.5	6.6						
28		4.5	6.2	5.1	18.7	6.3						
29			6.4	5.0	21.0	6.0						
30			6.4	5.0	22.2	5.5						
31			6.4		23.5							
<b>Means.</b>		3.2	7.1	5.6	9.7	10.0						

## MISSISSIPPI RIVER SYSTEM—DES MOINES RIVER, DES MOINES, IOWA—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1		Frozen.	Frozen.	3.7	6.3	5.9						
2				3.7	6.0	5.9						
3				3.7	5.8	8.0						
4				3.9	5.5	8.8						
5			2.5	3.9	5.2	8.5						
6			2.5	3.7	5.0	8.5						
7			2.5	4.0	4.8	7.8						
8			2.5	4.0	4.6	7.2						
9			2.5	5.0	4.5	7.0						
10			2.5	6.0	4.4	6.0						
11			2.5	7.0	4.4	5.5						
12			2.5	7.5	4.3	5.0						
13			2.5	8.0	4.4	4.5						
14			2.5	7.8	4.4	4.2						
15			2.5	7.5	4.4	4.0						
16			2.5	7.3	4.4	4.0						
17			2.5	6.9	4.4	4.0						
18			2.5	6.4	4.5	4.0						
19			2.5	6.2	4.3	4.0						
20			2.5	6.0	4.0	3.9						
21			2.5	5.5	4.0	3.8						
22			3.0	5.6	4.0	3.8						
23			3.2	5.0	3.9	3.8						
24			3.5	5.7	3.9	3.8						
25			4.0	6.5	3.8	3.8						
26			4.2	8.2	3.9	4.8						
27			4.2	7.5	4.8	4.9						
28			3.8	7.5	5.9	4.9						
29			3.7	7.2	6.3	4.9						
30			3.8	6.7	6.3	4.9						
31			3.8		6.0							
Means.			3.0	5.9	4.8	5.3						

## MISSISSIPPI RIVER SYSTEM—ILLINOIS RIVER, PEORIA, ILL.

1900												
1	5.6	7.7	12.3	15.8	11.5	8.6	7.3	7.3	8.0	6.4	6.7	9.6
2	5.5	7.8	12.2	16.3	11.3	8.7	7.2	7.3	8.1	6.3	6.8	9.7
3	5.4	7.8	12.0	16.7	11.1	8.7	7.2	7.4	8.2	6.5	6.8	9.7
4	5.4	7.9	11.8	16.9	10.8	8.8	7.2	7.3	8.2	6.5	6.7	9.6
5	5.3	7.7	11.6	16.9	10.5	8.9	7.1	7.3	8.1	6.7	6.7	9.6
6	5.1	7.6	11.5	16.7	10.3	8.8	7.0	7.3	8.0	6.8	6.7	9.5
7	5.0	7.5	11.4	16.4	10.1	8.8	6.9	7.0	7.9	6.9	6.7	9.5
8	5.0	8.3	11.3	16.1	10.0	8.8	7.0	7.0	7.7	6.9	6.8	9.4
9	4.9	9.3	11.4	15.8	10.1	8.8	6.9	6.9	7.4	6.9	6.8	9.3
10	5.0	10.0	11.8	15.6	9.9	8.6	6.7	6.8	7.2	6.9	6.7	9.2
11	5.0	10.5	12.5	15.3	9.8	8.6	6.7	6.7	6.8	7.0	6.9	9.1
12	5.1	11.0	13.8	14.8	9.7	8.5	6.6	6.7	6.8	6.9	6.8	8.9
13	5.2	11.5	15.4	14.5	9.7	8.4	6.5	6.7	6.7	6.7	7.0	8.9
14	5.2	11.5	17.4	14.2	9.6	8.3	6.4	6.8	6.5	6.6	7.0	8.8
15	5.1	11.5	19.2	14.0	9.6	8.1	6.4	7.0	6.3	6.4	7.1	8.7
16	5.1	11.4	19.9	13.8	9.5	7.8	6.3	7.9	6.0	6.5	6.9	8.5
17	5.1	11.4	19.9	13.6	9.4	7.6	6.4	8.1	6.2	6.4	6.9	8.4
18	5.7	11.5	19.5	13.3	9.3	7.4	6.4	8.1	6.2	6.3	6.9	8.4
19	6.1	11.5	19.0	13.3	9.4	7.3	6.4	8.0	6.3	6.4	7.0	8.4
20	6.6	11.4	18.7	13.3	9.3	7.3	6.4	7.9	6.3	6.3	7.2	8.4
21	7.1	11.4	18.3	13.3	9.1	7.2	6.5	7.9	6.0	6.2	7.2	8.4
22	7.5	11.5	17.8	13.2	8.9	7.1	6.5	7.9	5.8	6.4	7.6	8.3
23	7.7	11.6	17.6	13.1	8.8	7.0	6.5	7.8	5.6	6.4	7.9	8.1
24	7.8	11.4	17.3	13.0	8.7	6.8	6.4	7.8	5.4	6.6	8.1	8.4
25	8.1	12.0	17.0	12.8	8.7	6.9	6.6	7.8	5.3	6.6	8.6	8.4
26	8.1	12.3	16.7	12.6	8.7	7.1	6.6	7.8	5.4	6.6	9.0	8.3
27	8.1	12.3	16.4	12.5	8.6	7.2	6.4	7.8	5.7	6.6	9.2	8.1
28	7.9	12.4	16.1	12.3	8.6	7.3	6.6	7.8	6.0	6.5	9.4	8.1
29	8.0		16.0	12.0	8.7	7.4	6.7	7.8	6.3	6.6	9.5	8.0
30	7.9		15.8	11.9	8.7	7.4	6.9	7.8	6.6	6.7	9.5	8.0
31	7.8		15.7		8.7		7.1	8.0		6.7		8.0
Means.	6.2	10.3	15.4	14.3	9.6	7.9	6.7	7.5	6.7	6.6	7.4	8.8

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSISSIPPI RIVER SYSTEM—ILLINOIS RIVER, PEORIA, ILL.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	8.0	8.3	8.3	17.6	10.9	6.8	6.4	6.4	6.0	6.2	6.2	6.4
2.....	8.0	8.3	8.2	17.5	10.7	6.8	6.4	6.3	6.0	6.2	6.4	6.4
3.....	7.9	8.3	8.3	17.3	10.5	6.7	6.5	6.3	5.9	6.2	6.4	6.4
4.....	7.8	8.1	8.8	17.1	10.3	6.6	6.6	6.3	5.9	6.2	6.4	6.4
5.....	7.7	8.1	9.3	16.8	10.1	6.5	6.6	6.2	5.9	6.1	6.4	6.4
6.....	7.7	8.4	9.8	16.7	9.9	6.6	6.6	6.1	5.9	6.1	6.3	6.4
7.....	7.7	8.5	10.1	16.5	9.8	6.7	6.6	6.0	5.9	6.0	6.3	6.4
8.....	7.7	8.5	10.2	16.2	9.7	6.7	6.6	6.0	5.9	5.9	6.3	6.4
9.....	7.7	8.5	10.3	15.9	9.5	6.6	6.6	5.9	5.9	5.9	6.3	6.4
10.....	8.1	8.5	10.9	15.6	9.4	6.5	6.5	5.9	5.9	6.0	6.3	6.4
11.....	8.2	8.5	11.7	15.3	9.3	6.5	6.5	5.9	5.9	6.0	6.3	6.4
12.....	8.3	8.5	12.2	15.0	9.1	6.7	6.5	5.9	6.0	6.1	6.4	6.4
13.....	8.4	8.5	13.2	14.7	9.0	6.7	6.5	5.9	6.1	6.1	6.4	6.5
14.....	8.5	8.4	15.0	14.5	8.9	6.7	6.5	5.9	6.2	6.1	6.4	6.6
15.....	8.7	8.5	15.9	14.3	8.7	6.7	6.2	5.9	6.3	6.1	6.4	6.6
16.....	8.9	8.6	16.2	14.0	8.5	6.7	6.2	5.9	6.3	6.1	6.4	6.6
17.....	9.2	8.6	16.3	13.9	8.4	6.6	6.1	5.9	6.3	6.1	6.3	6.6
18.....	9.0	8.6	16.2	13.7	8.3	6.6	5.9	5.9	6.3	6.1	6.3	6.6
19.....	9.0	8.6	16.1	13.4	8.1	6.6	5.9	5.9	6.3	6.1	6.3	6.9
20.....	8.8	8.6	16.0	13.2	8.0	6.6	5.8	5.9	6.3	6.1	6.3	7.2
21.....	8.8	8.6	16.2	13.0	7.8	6.5	5.7	6.0	6.3	6.2	6.3	7.3
22.....	8.9	8.7	16.4	12.8	7.6	6.5	5.7	6.0	6.2	6.2	6.3	7.5
23.....	9.0	8.7	16.4	12.6	7.5	6.5	5.7	6.1	6.2	6.2	6.3	7.5
24.....	9.2	8.6	16.5	12.3	7.6	6.5	5.6	6.2	6.2	6.2	6.4	7.6
25.....	9.2	8.6	16.6	12.1	7.6	6.5	5.6	6.2	6.2	6.2	6.5	7.7
26.....	9.0	8.6	16.7	11.9	7.3	6.4	5.5	6.2	6.2	6.2	6.5	7.7
27.....	8.9	8.5	17.0	11.7	7.3	6.4	5.5	6.2	6.2	6.2	6.5	7.7
28.....	8.9	8.4	17.2	11.5	7.2	6.4	5.5	6.1	6.2	6.2	6.5	7.7
29.....	8.8		17.4	11.3	7.1	6.4	5.8	6.1	6.2	6.2	6.5	7.6
30.....	8.7		17.6	11.1	7.0	6.4	6.2	6.0	6.2	6.2	6.5	7.6
31.....	8.5		17.7		6.9		6.4	6.0		6.2		7.6
<b>Means.</b>	<b>8.5</b>	<b>8.4</b>	<b>13.8</b>	<b>14.3</b>	<b>8.6</b>	<b>6.6</b>	<b>6.2</b>	<b>6.0</b>	<b>6.1</b>	<b>6.1</b>	<b>6.4</b>	<b>6.9</b>
<b>1902</b>												
1.....	7.5	7.0	8.4	11.3	9.2	11.9	15.6	16.5	11.6	12.1	12.4	12.4
2.....	7.5	7.0	8.6	11.4	9.2	11.8	16.6	16.2	11.4	12.6	12.2	12.3
3.....	7.4	7.1	8.9	11.6	9.2	11.8	18.0	15.9	11.0	12.8	12.1	12.4
4.....	7.4	7.2	9.2	11.8	9.2	11.9	19.0	15.6	10.9	13.3	11.9	12.4
5.....	7.3	7.2	9.5	11.8	9.2	12.6	19.7	15.2	10.6	13.6	11.9	12.4
6.....	7.3	7.3	9.7	11.8	9.2	13.5	20.0	15.1	10.4	13.8	12.3	12.4
7.....	7.3	7.3	10.0	11.9	9.4	14.3	20.0	14.8	10.3	14.0	12.6	12.5
8.....	7.3	7.3	10.2	11.8	9.5	14.7	19.8	14.7	10.0	14.1	12.9	12.6
9.....	7.3	7.3	10.3	11.7	9.5	14.9	19.6	14.5	9.9	14.3	13.3	12.5
10.....	7.3	7.4	10.3	11.5	9.8	15.0	19.4	14.3	9.8	14.3	13.6	12.4
11.....	7.3	7.4	10.3	11.4	9.9	15.8	19.2	14.2	9.7	14.3	13.8	12.3
12.....	7.3	7.4	10.4	11.3	9.8	15.9	19.0	14.0	9.5	14.2	13.6	12.2
13.....	7.3	7.4	10.6	11.2	9.7	15.7	18.7	13.9	9.3	14.2	13.7	12.1
14.....	7.3	7.4	10.7	11.0	9.7	15.8	18.3	14.1	9.1	14.1	13.8	12.1
15.....	7.2	7.5	10.8	10.8	9.7	15.8	17.8	14.2	9.0	14.2	13.8	12.0
16.....	7.1	7.5	11.4	10.6	9.7	15.9	17.3	14.3	8.9	14.3	13.9	11.9
17.....	7.0	7.5	11.8	10.4	9.7	16.0	17.0	14.2	8.7	14.3	13.9	11.9
18.....	7.0	7.5	12.0	10.1	9.6	16.0	17.2	14.1	8.9	14.1	13.8	11.9
19.....	7.0	7.6	12.1	10.1	9.6	16.0	18.5	14.0	8.8	14.0	13.7	11.8
20.....	7.0	7.6	12.3	9.9	9.5	15.9	20.0	13.9	8.7	14.0	13.6	11.9
21.....	6.9	7.6	12.3	9.6	9.5	15.7	20.8	14.0	8.7	13.9	13.5	12.2
22.....	6.9	7.6	12.3	9.3	9.5	15.4	21.0	13.9	8.7	13.7	13.6	12.5
23.....	6.8	7.6	12.2	9.2	9.6	15.0	20.8	13.7	8.6	13.6	13.4	13.0
24.....	6.8	7.6	12.1	9.1	9.7	14.9	20.5	13.5	8.9	13.3	13.3	13.5
25.....	6.8	7.6	12.0	9.1	10.0	14.7	20.0	13.2	9.2	13.2	13.2	13.8
26.....	6.8	7.6	11.9	9.0	10.3	14.5	19.3	13.0	9.9	13.1	13.1	14.0
27.....	6.8	7.7	11.8	9.1	10.8	14.2	18.8	12.8	10.4	12.9	13.0	14.1
28.....	7.0	8.1	11.7	9.1	11.3	14.4	18.2	12.6	10.9	12.6	12.8	14.1
29.....	7.0		11.6	9.2	11.7	14.6	17.8	12.2	11.3	12.8	12.6	14.1
30.....	7.0		11.5	9.2	11.9	14.9	17.3	12.0	11.8	12.6	12.5	14.1
31.....	7.0		11.4		11.9		16.9	11.8		12.5		14.1
<b>Means.</b>	<b>7.1</b>	<b>7.4</b>	<b>10.9</b>	<b>10.5</b>	<b>9.9</b>	<b>14.6</b>	<b>18.8</b>	<b>14.1</b>	<b>9.8</b>	<b>13.6</b>	<b>13.1</b>	<b>12.7</b>

## DESCRIPTION OF RIVER GAGES, ETC.

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## MISSISSIPPI RIVER SYSTEM—ILLINOIS RIVER, PEORIA, ILL.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1908</b>												
1.....	14.1	12.8	15.5	15.8	15.4	11.1	9.7	8.5	9.2	11.4	10.2	8.7
2.....	14.0	13.0	15.8	15.4	15.0	11.3	9.7	8.5	9.2	11.4	10.1	8.7
3.....	13.8	13.2	16.1	15.2	14.8	11.7	9.5	8.4	9.1	11.2	10.1	8.7
4.....	13.6	13.4	16.3	15.1	14.5	12.0	9.4	8.5	9.1	11.2	10.1	8.7
5.....	13.5	13.5	16.4	14.9	14.3	12.2	9.3	8.6	9.1	11.2	10.0	8.7
6.....	13.4	13.6	16.5	14.7	14.1	12.4	9.2	8.8	8.9	11.1	9.9	8.6
7.....	13.3	13.6	16.7	14.7	13.9	12.6	9.1	8.8	8.8	11.0	9.8	8.5
8.....	13.2	13.7	17.3	14.8	13.7	12.8	9.0	8.8	8.7	11.2	9.6	8.5
9.....	13.3	13.8	18.0	14.8	13.5	13.0	8.9	8.9	8.7	11.4	9.4	8.5
10.....	13.3	13.9	18.7	14.8	13.2	13.0	8.8	8.9	9.1	11.5	9.5	8.6
11.....	13.3	14.1	19.2	15.0	13.0	13.0	8.7	8.9	9.2	11.5	9.3	8.6
12.....	13.3	14.5	19.3	15.2	12.8	12.9	8.7	8.9	9.2	11.5	9.4	8.6
13.....	13.3	14.8	19.3	15.7	12.7	12.8	8.7	8.8	9.3	11.5	9.4	8.6
14.....	13.3	15.1	19.2	16.4	12.5	12.6	8.7	8.7	9.6	11.5	9.4	8.8
15.....	13.1	15.7	19.0	17.1	12.3	12.4	8.7	8.6	10.2	11.4	9.4	8.7
16.....	13.0	16.0	18.8	17.7	12.1	12.2	8.7	9.1	10.8	11.3	9.4	8.6
17.....	12.9	16.0	18.5	18.3	11.9	12.0	8.6	9.1	11.3	11.3	9.1	8.7
18.....	12.9	16.3	18.2	18.6	11.7	11.8	8.7	9.0	11.9	11.2	9.1	8.7
19.....	12.9	16.4	17.8	18.7	11.4	11.6	8.7	8.9	12.2	11.1	9.1	8.7
20.....	12.8	16.4	18.0	18.7	11.4	11.5	8.9	8.8	12.4	11.0	9.1	8.8
21.....	12.7	16.2	18.0	18.5	11.2	11.3	9.1	8.7	12.5	11.0	8.9	9.0
22.....	12.6	15.9	18.1	18.3	11.0	11.2	9.1	8.6	12.5	10.9	8.9	9.1
23.....	12.5	15.5	18.2	17.9	10.9	11.1	9.1	8.5	12.4	10.9	8.9	9.2
24.....	12.4	15.4	18.0	17.3	10.8	11.0	9.1	8.4	12.4	10.9	8.9	9.3
25.....	12.3	15.2	17.9	17.2	10.8	10.8	9.1	8.4	12.2	10.8	9.0	9.4
26.....	12.3	15.0	17.7	16.9	10.7	10.7	8.9	8.4	11.9	10.7	9.0	9.7
27.....	12.3	15.1	17.4	16.5	10.6	10.5	8.8	8.5	12.0	10.6	9.0	9.7
28.....	12.4	15.3	17.1	16.1	10.7	10.3	8.6	8.9	11.8	10.5	8.9	9.8
29.....	12.5	.....	16.8	15.9	10.7	10.1	8.5	9.0	11.7	10.4	8.9	10.0
30.....	12.6	.....	16.5	15.7	10.8	9.9	8.6	9.2	11.5	10.3	8.9	10.1
31.....	12.7	.....	16.1	.....	11.0	.....	8.5	9.2	.....	10.2	.....	10.1
<b>Means.</b>	<b>13.0</b>	<b>14.8</b>	<b>17.6</b>	<b>16.4</b>	<b>12.4</b>	<b>11.7</b>	<b>8.9</b>	<b>8.8</b>	<b>10.6</b>	<b>11.1</b>	<b>9.4</b>	<b>9.0</b>
<b>1904</b>												
1.....	10.1	15.8	14.0	22.3	16.2	11.6	8.1	8.4	8.1	9.6	8.0	7.7
2.....	10.1	15.6	14.3	22.1	16.1	11.5	8.0	8.4	7.9	9.7	7.9	7.8
3.....	10.2	15.6	14.9	22.1	15.9	11.5	7.8	8.3	8.0	9.7	7.9	7.7
4.....	10.2	15.4	15.7	21.9	15.6	11.6	7.8	8.2	7.9	9.6	7.9	7.6
5.....	10.2	15.4	16.4	21.6	15.3	11.7	7.8	8.2	7.9	9.6	8.0	7.6
6.....	10.2	15.2	17.0	21.3	15.0	11.8	8.0	8.1	7.8	9.6	7.9	7.7
7.....	10.2	15.4	17.3	21.0	14.9	11.8	8.0	8.0	7.7	9.5	7.8	7.7
8.....	10.1	15.6	17.5	20.4	14.6	11.8	8.0	8.0	7.7	9.3	7.8	7.7
9.....	10.1	15.9	17.8	20.4	14.5	11.7	8.0	7.8	7.6	9.2	7.8	7.7
10.....	10.1	16.3	18.2	20.1	14.3	11.5	8.1	7.8	7.5	9.1	7.9	7.9
11.....	10.1	16.5	18.5	19.8	14.2	11.3	8.1	7.7	7.5	9.2	7.9	7.8
12.....	10.1	16.6	18.5	19.7	13.9	11.1	8.3	7.6	7.4	9.2	7.8	7.8
13.....	10.1	16.5	18.5	19.4	14.0	10.9	8.4	7.5	7.3	9.0	7.9	7.8
14.....	10.2	16.4	18.3	19.0	13.9	10.7	8.3	7.7	7.3	9.0	7.9	7.7
15.....	10.2	16.2	18.0	18.6	13.8	10.5	8.4	7.6	7.3	8.9	7.8	7.7
16.....	10.1	16.0	17.7	18.5	13.6	10.3	8.7	7.5	7.1	8.8	7.9	7.7
17.....	10.0	15.7	17.5	18.0	13.5	10.1	8.8	7.5	7.1	8.6	7.9	7.7
18.....	10.0	15.5	17.3	17.6	13.3	9.9	8.7	7.5	7.2	8.6	7.9	7.7
19.....	10.0	15.2	17.1	17.3	13.1	9.7	8.6	7.4	7.4	8.6	7.9	7.8
20.....	10.0	15.0	17.5	17.0	12.9	9.5	8.6	7.8	7.6	8.4	7.9	7.9
21.....	11.6	14.8	18.2	16.6	12.8	9.4	8.5	7.7	7.6	8.4	7.9	7.9
22.....	12.7	14.6	19.3	16.2	12.5	9.3	8.4	8.0	7.6	8.5	7.9	7.9
23.....	13.3	14.4	20.2	15.9	12.4	9.2	8.2	8.2	7.6	8.5	7.8	8.0
24.....	14.1	14.2	20.9	15.7	12.4	8.8	8.2	8.2	7.5	8.2	8.0	8.0
25.....	14.9	14.0	21.6	15.8	12.3	8.8	8.0	8.3	7.8	8.3	7.9	8.2
26.....	15.7	13.8	22.0	16.0	12.1	8.6	7.9	8.4	8.5	8.2	7.9	8.2
27.....	16.1	13.6	22.7	15.9	12.0	8.4	7.8	8.4	9.1	8.3	7.9	8.3
28.....	16.2	13.5	23.0	16.0	11.8	8.4	7.8	8.3	9.4	8.2	7.9	8.5
29.....	16.3	13.8	23.0	16.2	11.8	8.1	7.8	8.3	9.4	8.2	7.8	8.7
30.....	16.3	.....	22.8	16.3	11.7	8.1	7.7	8.3	9.6	8.1	7.8	8.7
31.....	16.2	.....	22.6	.....	11.7	.....	7.6	8.2	.....	8.1	.....	8.7
<b>Means.</b>	<b>11.8</b>	<b>15.2</b>	<b>18.7</b>	<b>18.6</b>	<b>13.6</b>	<b>10.3</b>	<b>8.1</b>	<b>8.0</b>	<b>7.8</b>	<b>8.8</b>	<b>7.9</b>	<b>7.9</b>

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSISSIPPI RIVER SYSTEM—ILLINOIS RIVER, PEORIA, ILL.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	8.0	8.3	8.3	17.6	10.9	6.8	6.4	6.4	6.0	6.2	6.2	6.4
2.....	8.0	8.3	8.2	17.5	10.7	6.8	6.4	6.3	6.0	6.2	6.4	6.4
3.....	7.9	8.3	8.3	17.3	10.5	6.7	6.5	6.3	5.9	6.2	6.4	6.4
4.....	7.8	8.1	8.8	17.1	10.3	6.6	6.6	6.3	5.9	6.2	6.4	6.4
5.....	7.7	8.1	9.3	16.8	10.1	6.5	6.6	6.2	5.9	6.1	6.4	6.4
6.....	7.7	8.4	9.8	16.7	9.9	6.6	6.6	6.1	5.9	6.1	6.3	6.4
7.....	7.7	8.5	10.1	16.5	9.8	6.7	6.6	6.0	5.9	6.0	6.3	6.4
8.....	7.7	8.5	10.2	16.2	9.7	6.7	6.6	6.0	5.9	5.9	6.3	6.4
9.....	7.7	8.5	10.3	15.9	9.5	6.6	6.6	5.9	5.9	5.9	6.3	6.4
10.....	8.1	8.5	10.9	15.6	9.4	6.5	6.5	5.9	5.9	6.0	6.3	6.4
11.....	8.2	8.5	11.7	15.3	9.3	6.5	6.5	5.9	5.9	6.0	6.3	6.4
12.....	8.3	8.5	12.2	15.0	9.1	6.7	6.5	5.9	6.0	6.1	6.4	6.4
13.....	8.4	8.5	13.2	14.7	9.0	6.7	6.5	5.9	6.1	6.1	6.4	6.5
14.....	8.5	8.4	15.0	14.5	8.9	6.7	6.5	5.9	6.2	6.1	6.4	6.6
15.....	8.7	8.5	15.9	14.3	8.7	6.7	6.2	5.9	6.3	6.1	6.4	6.6
16.....	8.9	8.6	16.2	14.0	8.5	6.7	6.2	5.9	6.3	6.1	6.4	6.6
17.....	9.2	8.6	16.3	13.9	8.4	6.6	6.1	5.9	6.3	6.1	6.3	6.6
18.....	9.0	8.6	16.2	13.7	8.3	6.6	5.9	5.9	6.3	6.1	6.3	6.6
19.....	9.0	8.6	16.1	13.4	8.1	6.6	5.9	5.9	6.3	6.1	6.3	6.9
20.....	8.8	8.6	16.0	13.2	8.0	6.6	5.8	5.9	6.3	6.1	6.3	7.2
21.....	8.8	8.6	16.2	13.0	7.8	6.5	5.7	6.0	6.3	6.2	6.3	7.3
22.....	8.9	8.7	16.4	12.8	7.6	6.5	5.7	6.0	6.2	6.2	6.3	7.5
23.....	9.0	8.7	16.4	12.6	7.5	6.5	5.7	6.1	6.2	6.2	6.3	7.5
24.....	9.2	8.6	16.5	12.3	7.6	6.5	5.6	6.2	6.2	6.2	6.4	7.6
25.....	9.2	8.6	16.6	12.1	7.6	6.5	5.6	6.2	6.2	6.2	6.5	7.7
26.....	9.0	8.6	16.7	11.9	7.3	6.4	5.5	6.2	6.2	6.2	6.5	7.7
27.....	8.9	8.5	17.0	11.7	7.3	6.4	5.5	6.2	6.2	6.2	6.5	7.7
28.....	8.9	8.4	17.2	11.5	7.2	6.4	5.5	6.1	6.2	6.2	6.5	7.7
29.....	8.8	.....	17.4	11.3	7.1	6.4	5.8	6.1	6.2	6.2	6.5	7.6
30.....	8.7	.....	17.6	11.1	7.0	6.4	6.2	6.0	6.2	6.2	6.5	7.6
31.....	8.5	.....	17.7	.....	6.9	.....	6.4	6.0	.....	6.2	.....	7.6
<b>Means.</b>	<b>8.5</b>	<b>8.4</b>	<b>13.8</b>	<b>14.3</b>	<b>8.6</b>	<b>6.6</b>	<b>6.2</b>	<b>6.0</b>	<b>6.1</b>	<b>6.1</b>	<b>6.4</b>	<b>6.9</b>
<b>1902</b>												
1.....	7.5	7.0	8.4	11.3	9.2	11.9	15.6	16.5	11.6	12.1	12.4	12.4
2.....	7.5	7.0	8.6	11.4	9.2	11.8	16.6	16.2	11.4	12.6	12.2	12.3
3.....	7.4	7.1	8.9	11.6	9.2	11.8	18.0	15.9	11.0	12.8	12.1	12.4
4.....	7.4	7.2	9.2	11.8	9.2	11.9	19.0	15.6	10.9	13.3	11.9	12.4
5.....	7.3	7.2	9.5	11.8	9.2	12.6	19.7	15.2	10.6	13.6	11.9	12.4
6.....	7.3	7.3	9.7	11.8	9.2	13.5	20.0	15.1	10.4	13.8	12.3	12.4
7.....	7.3	7.3	10.0	11.9	9.4	14.3	20.0	14.8	10.3	14.0	12.6	12.5
8.....	7.3	7.3	10.2	11.8	9.5	14.7	19.8	14.7	10.0	14.1	12.9	12.6
9.....	7.3	7.3	10.3	11.7	9.5	14.9	19.6	14.5	9.9	14.3	13.3	12.5
10.....	7.3	7.4	10.3	11.5	9.8	15.0	19.4	14.3	9.8	14.3	13.6	12.4
11.....	7.3	7.4	10.3	11.4	9.9	15.8	19.2	14.2	9.7	14.3	13.8	12.3
12.....	7.3	7.4	10.4	11.3	9.8	15.9	19.0	14.0	9.5	14.2	13.6	12.2
13.....	7.3	7.4	10.6	11.2	9.7	15.7	18.7	13.9	9.3	14.2	13.7	12.1
14.....	7.3	7.4	10.7	11.0	9.7	15.8	18.3	14.1	9.1	14.1	13.8	12.1
15.....	7.2	7.5	10.8	10.8	9.7	15.8	17.8	14.2	9.0	14.2	13.8	12.0
16.....	7.1	7.5	11.4	10.6	9.7	15.9	17.3	14.3	8.9	14.3	13.9	11.9
17.....	7.0	7.5	11.8	10.4	9.7	16.0	17.0	14.2	8.7	14.3	13.9	11.9
18.....	7.0	7.5	12.0	10.1	9.6	16.0	17.2	14.1	8.9	14.1	13.8	11.9
19.....	7.0	7.6	12.1	10.1	9.6	16.0	18.5	14.0	8.8	14.0	13.7	11.8
20.....	7.0	7.6	12.3	9.9	9.5	15.9	20.0	13.9	8.7	14.0	13.6	11.9
21.....	6.9	7.6	12.3	9.6	9.5	15.7	20.8	14.0	8.7	13.9	13.5	12.2
22.....	6.9	7.6	12.3	9.3	9.5	15.4	21.0	13.9	8.7	13.7	13.6	12.5
23.....	6.8	7.6	12.2	9.2	9.6	15.0	20.8	13.7	8.6	13.6	13.4	13.0
24.....	6.8	7.6	12.1	9.1	9.7	14.9	20.5	13.5	8.9	13.3	13.3	13.5
25.....	6.8	7.6	12.0	9.1	10.0	14.7	20.0	13.2	9.2	13.2	13.2	13.8
26.....	6.8	7.6	11.9	9.0	10.3	14.5	19.3	13.0	9.9	13.1	13.1	14.0
27.....	6.8	7.7	11.8	9.1	10.8	14.2	18.8	12.8	10.4	12.9	13.0	14.1
28.....	7.0	8.1	11.7	9.1	11.3	14.4	18.2	12.6	10.9	12.6	12.8	14.1
29.....	7.0	.....	11.6	9.2	11.7	14.6	17.8	12.2	11.3	12.8	12.6	14.1
30.....	7.0	.....	11.5	9.2	11.9	14.9	17.3	12.0	11.8	12.6	12.5	14.1
31.....	7.0	.....	11.4	.....	11.9	.....	16.9	11.8	.....	12.5	.....	14.1
<b>Means.</b>	<b>7.1</b>	<b>7.4</b>	<b>10.9</b>	<b>10.5</b>	<b>9.9</b>	<b>14.6</b>	<b>18.8</b>	<b>14.1</b>	<b>9.8</b>	<b>13.6</b>	<b>13.1</b>	<b>12.7</b>

## DESCRIPTION OF RIVER GAGES, ETC.

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## MISSISSIPPI RIVER SYSTEM—ILLINOIS RIVER, PEORIA, ILL.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	14.1	12.8	15.5	15.8	15.4	11.1	9.7	8.5	9.2	11.4	10.2	8.7
2.....	14.0	13.0	15.8	15.4	15.0	11.3	9.7	8.5	9.2	11.4	10.1	8.7
3.....	13.8	13.2	16.1	15.2	14.8	11.7	9.5	8.4	9.1	11.2	10.1	8.7
4.....	13.6	13.4	16.3	15.1	14.5	12.0	9.4	8.5	9.1	11.2	10.1	8.7
5.....	13.5	13.5	16.4	14.9	14.3	12.2	9.3	8.6	9.1	11.2	10.0	8.7
6.....	13.4	13.6	16.5	14.7	14.1	12.4	9.2	8.8	8.9	11.1	9.9	8.6
7.....	13.3	13.6	16.7	14.7	13.9	12.6	9.1	8.8	8.8	11.0	9.8	8.5
8.....	13.2	13.7	17.3	14.8	13.7	12.8	9.0	8.8	8.7	11.2	9.6	8.5
9.....	13.3	13.8	18.0	14.8	13.5	13.0	8.9	8.9	8.7	11.4	9.4	8.5
10.....	13.3	13.9	18.7	14.8	13.2	13.0	8.8	8.9	9.1	11.5	9.5	8.6
11.....	13.3	14.1	19.2	15.0	13.0	13.0	8.7	8.9	9.2	11.5	9.3	8.6
12.....	13.3	14.5	19.3	15.2	12.8	12.9	8.7	8.9	9.2	11.5	9.4	8.6
13.....	13.3	14.8	19.3	15.7	12.7	12.8	8.7	8.8	9.3	11.5	9.4	8.6
14.....	13.3	15.1	19.2	16.4	12.5	12.6	8.7	8.7	9.6	11.5	9.4	8.8
15.....	13.1	15.7	19.0	17.1	12.3	12.4	8.7	8.6	10.2	11.4	9.4	8.7
16.....	13.0	16.0	18.8	17.7	12.1	12.2	8.7	9.1	10.8	11.3	9.4	8.6
17.....	12.9	16.0	18.5	18.3	11.9	12.0	8.6	9.1	11.3	11.3	9.1	8.7
18.....	12.9	16.3	18.2	18.6	11.7	11.8	8.7	9.0	11.9	11.2	9.1	8.7
19.....	12.9	16.4	17.8	18.7	11.4	11.6	8.7	8.9	12.2	11.1	9.1	8.7
20.....	12.8	16.4	18.0	18.7	11.4	11.5	8.9	8.8	12.4	11.0	9.1	8.8
21.....	12.7	16.2	18.0	18.5	11.2	11.3	9.1	8.7	12.5	11.0	8.9	9.0
22.....	12.6	15.9	18.1	18.3	11.0	11.2	9.1	8.6	12.5	10.9	8.9	9.1
23.....	12.5	15.5	18.2	17.9	10.9	11.1	9.1	8.5	12.4	10.9	8.9	9.2
24.....	12.4	15.4	18.0	17.3	10.8	11.0	9.1	8.4	12.4	10.9	8.9	9.3
25.....	12.3	15.2	17.9	17.2	10.8	10.8	9.1	8.4	12.2	10.8	9.0	9.4
26.....	12.3	15.0	17.7	16.9	10.7	10.7	8.9	8.4	11.9	10.7	9.0	9.7
27.....	12.3	15.1	17.4	16.5	10.6	10.5	8.8	8.5	12.0	10.6	9.0	9.7
28.....	12.4	15.3	17.1	16.1	10.7	10.3	8.6	8.9	11.8	10.5	8.9	9.8
29.....	12.5	.....	16.8	15.9	10.7	10.1	8.5	9.0	11.7	10.4	8.9	10.0
30.....	12.6	.....	16.5	15.7	10.8	9.9	8.6	9.2	11.5	10.3	8.9	10.1
31.....	12.7	.....	16.1	.....	11.0	.....	8.5	9.2	.....	10.2	.....	10.1
<b>Means.</b>	13.0	14.8	17.6	16.4	12.4	11.7	8.9	8.8	10.6	11.1	9.4	9.0
<b>1904</b>												
1.....	10.1	15.8	14.0	22.3	16.2	11.6	8.1	8.4	8.1	9.6	8.0	7.7
2.....	10.1	15.6	14.3	22.1	16.1	11.5	8.0	8.4	7.9	9.7	7.9	7.8
3.....	10.2	15.6	14.9	22.1	15.9	11.5	7.8	8.3	8.0	9.7	7.9	7.7
4.....	10.2	15.4	15.7	21.9	15.6	11.6	7.8	8.2	7.9	9.6	7.9	7.6
5.....	10.2	15.4	16.4	21.6	15.3	11.7	7.8	8.2	7.9	9.6	8.0	7.6
6.....	10.2	15.2	17.0	21.3	15.0	11.8	8.0	8.1	7.8	9.6	7.9	7.7
7.....	10.2	15.4	17.3	21.0	14.9	11.8	8.0	8.0	7.7	9.5	7.8	7.7
8.....	10.1	15.6	17.5	20.4	14.6	11.8	8.0	8.0	7.7	9.3	7.8	7.7
9.....	10.1	15.9	17.8	20.4	14.5	11.7	8.0	7.8	7.6	9.2	7.8	7.7
10.....	10.1	16.3	18.2	20.1	14.3	11.5	8.1	7.8	7.5	9.1	7.9	7.9
11.....	10.1	16.5	18.5	19.8	14.2	11.3	8.1	7.7	7.5	9.2	7.9	7.8
12.....	10.1	16.6	18.5	19.7	13.9	11.1	8.3	7.6	7.4	9.2	7.8	7.8
13.....	10.1	16.5	18.5	19.4	14.0	10.9	8.4	7.5	7.3	9.0	7.9	7.8
14.....	10.2	16.4	18.3	19.0	13.9	10.7	8.3	7.7	7.3	9.0	7.9	7.7
15.....	10.2	16.2	18.0	18.6	13.8	10.5	8.4	7.6	7.3	8.9	7.8	7.7
16.....	10.1	16.0	17.7	18.5	13.6	10.3	8.7	7.5	7.1	8.8	7.9	7.7
17.....	10.0	15.7	17.5	18.0	13.5	10.1	8.8	7.5	7.1	8.6	7.9	7.7
18.....	10.0	15.5	17.3	17.6	13.3	9.9	8.7	7.5	7.2	8.6	7.9	7.7
19.....	10.0	15.2	17.1	17.3	13.1	9.7	8.6	7.4	7.4	8.6	7.9	7.8
20.....	10.0	15.0	17.5	17.0	12.9	9.5	8.6	7.8	7.6	8.4	7.9	7.9
21.....	11.6	14.8	18.2	16.6	12.8	9.4	8.5	7.7	7.6	8.4	7.9	7.9
22.....	12.7	14.6	19.3	16.2	12.5	9.3	8.4	8.0	7.6	8.5	7.9	7.9
23.....	13.3	14.4	20.2	15.9	12.4	9.2	8.2	8.2	7.6	8.5	7.8	8.0
24.....	14.1	14.2	20.9	15.7	12.4	8.8	8.2	8.2	7.5	8.2	8.0	8.0
25.....	14.9	14.0	21.6	15.8	12.3	8.8	8.0	8.3	7.8	8.3	7.9	8.2
26.....	15.7	13.8	22.0	16.0	12.1	8.6	7.9	8.4	8.5	8.2	7.9	8.2
27.....	16.1	13.6	22.7	15.9	12.0	8.4	7.8	8.4	9.1	8.3	7.9	8.3
28.....	16.2	13.5	23.0	16.0	11.8	8.4	7.8	8.3	9.4	8.2	7.9	8.5
29.....	16.3	13.8	23.0	16.2	11.8	8.1	7.8	8.3	9.4	8.2	7.8	8.7
30.....	16.3	.....	22.8	16.3	11.7	8.1	7.7	8.3	9.6	8.1	7.8	8.7
31.....	16.2	.....	22.6	.....	11.7	.....	7.6	8.2	.....	8.1	.....	8.7
<b>Means.</b>	11.8	15.2	18.7	18.6	13.6	10.3	8.1	8.0	7.8	8.8	7.9	7.9

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSISSIPPI RIVER SYSTEM—ILLINOIS RIVER, BEARDSTOWN, ILL.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....			10.7	15.5	11.5	8.0						
2.....			10.7	15.0	11.5	8.0						
3.....			10.7	14.9	11.3	8.0						
4.....			10.7	14.8	11.0	8.0						
5.....			10.9	14.7	10.8	8.0						
6.....			11.2	14.7	10.7	8.0						
7.....			11.5	14.6	10.5	8.0						
8.....			11.7	14.6	10.4	8.0						
9.....			12.1	14.6	10.3	7.9						
10.....			12.6	14.5	10.2	7.9						
11.....			13.1	14.3	10.0	7.8						
12.....			14.2	14.2	9.8	7.8						
13.....			15.2	14.0	9.7	7.8						
14.....			16.0	13.9	9.5	7.8						
15.....			16.8	13.7	9.3	7.8						
16.....			17.3	13.7	9.2	7.8						
17.....			17.7	13.7	9.1	7.8						
18.....			17.8	13.3	9.1	7.7						
19.....			17.8	13.1	9.1	7.6						
20.....			17.8	12.9	9.2	7.5						
21.....			17.7	12.8	9.0	7.3						
22.....			17.5	12.7	8.8	7.3						
23.....			17.3	12.6	8.8	7.2						
24.....			17.0	12.4	8.8	7.2						
25.....			16.8	12.3	8.6	7.1						
26.....			16.7	12.1	8.6	7.1						
27.....			16.5	12.0	8.5	7.1						
28.....			16.2	11.9	8.4	7.1						
29.....			15.9	11.8	8.3	7.1						
30.....			15.7	11.7	8.2	7.1						
31.....			15.4		8.0							
<b>Means.</b>			14.8	13.6	9.6	7.6						
<b>1901</b>												
1.....			8.6	14.8	11.3	7.8						
2.....			8.6	15.0	11.1	7.8						
3.....			8.7	15.1	10.9	7.7						
4.....			8.8	15.1	10.7	7.6						
5.....			8.9	15.2	10.5	7.6						
6.....			8.8	15.2	10.3	7.7						
7.....			8.8	15.2	10.2	7.8						
8.....			9.0	15.2	10.1	7.8						
9.....			9.1	15.1	10.0	7.6						
10.....			9.6	15.0	9.9	7.6						
11.....			10.2	14.8	9.8	7.6						
12.....			10.6	14.7	9.7	7.6						
13.....			10.8	14.6	9.6	7.6						
14.....			11.0	14.4	9.5	7.6						
15.....			11.3	14.2	9.4	7.6						
16.....			11.6	14.1	9.3	7.6						
17.....			12.0	14.0	9.2	7.5						
18.....			12.5	13.7	9.0	7.4						
19.....			12.8	13.5	9.0	7.4						
20.....			13.1	13.3	8.8	7.4						
21.....			13.4	13.1	8.8	7.4						
22.....			13.6	12.9	8.6	7.3						
23.....			13.7	12.8	8.6	7.6						
24.....			13.9	12.6	8.4	7.6						
25.....			14.0	12.4	8.4	7.4						
26.....			14.2	12.2	8.2	7.4						
27.....			14.2	12.1	8.2	7.4						
28.....			14.3	11.9	8.1	7.5						
29.....			14.4	11.7	8.0	7.5						
30.....			14.6	11.5	8.0	7.6						
31.....			14.7		7.9							
<b>Means.</b>			11.6	13.8	9.3	7.6						



## MISSISSIPPI RIVER SYSTEM—ILLINOIS RIVER, BEARDSTOWN, ILL.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.			8.5	10.1	9.1	9.1						
2.			8.7	10.1	9.3	9.2						
3.			8.9	10.1	9.3	9.4						
4.			8.9	10.2	9.3	9.5						
5.			9.1	10.2	9.3	9.6						
6.			9.2	10.3	9.3	9.6						
7.			9.2	10.3	9.2	9.7						
8.			9.3	10.4	9.2	9.8						
9.			9.4	10.4	9.2	9.9						
10.			9.5	10.4	9.2	10.0						
11.			9.6	10.4	9.2	10.2						
12.			9.7	10.3	9.2	10.4						
13.			9.8	10.3	9.1	10.7						
14.			9.8	10.2	9.1	10.2						
15.			9.8	10.2	9.1	11.5						
16.			9.8	10.1	9.0	12.0						
17.			9.8	10.0	9.0	12.2						
18.			9.8	9.9	8.9	12.4						
19.			9.8	9.8	8.9	12.6						
20.			9.9	9.7	8.9	12.8						
21.			10.1	9.6	8.8	13.0						
22.			10.1	9.5	8.9	13.1						
23.			10.1	9.4	8.9	13.2						
24.			10.2	9.3	8.9	13.2						
25.			10.2	9.3	8.9	13.2						
26.			10.2	9.2	8.9	13.1						
27.			10.3	9.3	8.9	13.2						
28.			10.3	9.2	8.9	13.3						
29.			10.2	9.3	8.9	13.4						
30.			10.2	9.2	9.0	13.5						
31.			10.2		9.0							
<b>Means.</b>			9.7	9.9	9.1	11.5						
<b>1903</b>												
1.			14.3	15.6	15.4	11.3	10.4					
2.			14.3	15.4	15.2	11.6	10.2					
3.			14.4	15.2	14.9	11.7	10.0					
4.			14.5	15.1	14.6	11.9	9.9					
5.			14.7	15.0	14.3	12.0	9.7					
6.			14.8	14.8	14.1	12.3	9.6					
7.			15.1	14.6	13.9	12.6	9.5					
8.			15.5	14.4	13.6	12.9	9.4					
9.			15.8	14.2	13.3	13.3	9.2					
10.			16.0	14.1	13.1	13.7	9.1					
11.			16.3	14.6	12.9	14.0	9.1					
12.			16.6	15.0	12.7	14.2	9.1					
13.			16.7	15.1	12.5	14.3	9.1					
14.			16.9	15.3	12.3	14.3	9.0					
15.			17.0	15.7	12.1	14.2	8.9					
16.			17.0	16.0	12.0	14.1	8.8					
17.			17.0	16.2	11.9	13.8	8.8					
18.			16.9	16.4	11.7	13.5	8.7					
19.			16.8	16.6	11.5	13.3	8.7					
20.			16.9	16.8	11.3	13.0	8.7					
21.			17.0	16.9	11.2	12.7	8.7					
22.			16.9	16.9	11.1	12.4	8.7					
23.			16.9	16.9	11.0	12.2	8.7					
24.			16.8	16.9	11.0	12.0	8.7					
25.			16.7	16.8	11.1	11.7	8.7					
26.			16.6	16.6	11.2	11.5	8.6					
27.			16.5	16.5	11.1	11.3	8.6					
28.			16.4	16.2	11.0	11.1	8.5					
29.			16.2	16.0	11.0	10.8	8.5					
30.			16.0	15.7	11.0	10.6	8.6					
31.			15.8		11.0		8.6					
<b>Means.</b>			16.1	15.7	12.4	12.6	9.1					

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSISSIPPI RIVER SYSTEM—ILLINOIS RIVER, BEARDSTOWN, ILL.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1			14.3	19.5	16.0	11.3	8.8					
2			14.5	19.8	16.1	11.2	8.7					
3			14.6	20.0	16.1	11.1	8.6					
4			14.8	20.0	16.1	11.2	8.5					
5			15.0	20.0	15.9	11.5	8.4					
6			15.2	19.9	15.7	11.6	8.3					
7			15.3	19.8	15.6	11.7	8.6					
8			15.2	19.7	15.4	11.6	8.8					
9			15.1	19.7	15.2	11.5	8.7					
10			15.1	19.6	14.9	11.4	8.8					
11			15.2	19.4	14.6	11.3	9.0					
12			15.2	19.2	14.3	11.2	9.0					
13			15.3	18.9	14.0	11.0	9.0					
14			15.5	18.7	13.8	10.8	9.1					
15			15.4	18.4	13.5	10.7	9.2					
16			15.4	18.2	13.3	10.6	9.1					
17			15.4	17.9	13.2	10.4	9.1					
18			15.4	17.6	13.0	10.3	9.0					
19			15.4	17.3	12.8	10.4	8.9					
20			15.4	17.0	12.6	10.3	9.0					
21			15.5	16.7	12.5	10.2	9.0					
22			15.6	16.4	12.3	10.0	9.0					
23			15.9	16.1	12.2	9.8	9.0					
24			16.2	15.8	12.1	9.7	9.0					
25			16.6	15.7	11.9	9.7	8.9					
26			17.1	16.1	11.8	9.6	8.8					
27			17.6	16.2	11.6	9.5	8.7					
28			18.0	16.1	11.5	9.3	8.6					
29			18.5	16.1	11.3	9.1	8.4					
30			18.8	16.0	11.4	9.0	8.3					
31			19.2		11.4		8.2					
Means			15.9	18.1	13.6	10.6	8.8					

## MISSISSIPPI RIVER SYSTEM—ST. FRANCIS RIVER, MARKED TREE, ARK.

1904												
1								1.7	1.7	1.8	1.2	
2								1.6	1.7	1.8	1.2	
3								1.5	1.7	1.9	1.2	
4								1.4	1.8	1.9	1.2	
5								1.3	1.8	1.9	1.3	
6								1.2	1.9	1.8	1.3	
7								1.2	2.0	1.8	1.3	
8								1.1	2.2	1.7	1.3	
9								1.1	2.3	1.7	1.3	
10								1.1	2.3	1.7	1.3	
11								1.0	2.4	1.6	1.3	
12								1.0	2.4	1.6	1.3	
13								1.4	2.4	1.5	1.2	
14								1.5	2.4	1.5	1.2	
15								1.7	2.4	1.5	1.2	
16								1.7	2.4	1.4	1.2	
17								1.8	2.4	1.4	1.2	
18								1.8	2.4	1.3	1.2	
19								1.9	2.3	1.3	1.2	
20								1.9	2.3	1.3	1.2	
21								1.9	2.2	1.4	1.2	
22								1.9	2.1	1.5	1.2	
23								1.9	2.0	1.4	1.2	
24								1.8	1.9	1.3	1.2	
25								1.9	1.9	1.3	1.5	
26								2.0	1.9	1.2	2.0	
27								2.0	1.9	1.2	2.7	
28								1.9	1.8	1.2	3.1	
29								1.8	1.8	1.2	3.1	
30								1.7	1.8	1.2	3.1	
31									1.8		3.1	
Means								1.6	2.1	1.5	1.6	

## MISSISSIPPI RIVER SYSTEM—NEOSHO RIVER, NEOSHO RAPIDS, KANS.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1									0.4	0.6	0.2	0.3
2									0.1	0.6	0.2	0.2
3									0.0	0.5	0.2	0.2
4									0.8	0.7	0.2	0.2
5									0.6	0.6	0.1	0.3
6									0.7	0.5	0.1	0.2
7									0.7	0.5	0.0	0.2
8									0.6	0.5	0.0	0.2
9									0.5	0.5	0.2	0.2
10									0.5	0.3	0.3	0.2
11									0.5	0.3	0.2	0.2
12									0.5	0.3	0.2	0.3
13									0.6	0.3	0.2	0.3
14									0.7	0.3	0.2	0.3
15									0.8	0.3	0.2	0.3
16									0.6	0.3	0.2	0.2
17									0.5	0.3	0.2	0.2
18									0.5	0.2	0.2	0.3
19									0.5	0.3	0.2	0.2
20									0.5	0.3	0.2	0.2
21									0.5	0.2	0.2	0.2
22									0.5	0.2	0.3	0.2
23									0.6	0.2	0.2	0.2
24									0.7	0.2	0.2	0.2
25									0.6	0.2	0.2	0.2
26									0.6	0.1	0.2	0.2
27									0.5	0.1	0.2	0.2
28									0.5	0.1	0.2	0.2
29									0.5	0.1	0.2	0.2
30									0.5	0.1	0.2	0.2
31										0.2		0.2
Means.									0.5	0.3	0.2	0.2

## MISSISSIPPI RIVER SYSTEM—NEOSHO RIVER, IOLA, KANS.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1									0.5	0.3	0.2	0.3
2									0.5	0.3	0.1	0.3
3									0.8	0.3	0.1	0.3
4									0.7	0.3	0.1	0.3
5									0.6	0.4	0.1	0.3
6									0.5	0.4	0.1	0.3
7									0.5	0.4	0.1	0.3
8									0.5	0.3	0.1	0.3
9									0.5	0.3	0.1	0.3
10									0.3	0.3	0.3	0.4
11									0.4	0.3	0.3	0.4
12									0.4	0.3	0.3	0.4
13									0.3	0.3	0.2	0.4
14									0.3	0.3	0.2	0.4
15									0.3	0.4	0.2	0.4
16									0.3	0.4	0.2	0.4
17									0.3	0.3	0.2	0.4
18									0.3	0.3	0.2	0.4
19									0.3	0.3	0.2	0.4
20									0.3	0.3	0.3	0.4
21									0.3	0.3	0.4	0.4
22									0.4	0.2	0.4	0.4
23									0.3	0.2	0.3	0.3
24									0.2	0.2	0.2	0.2
25									0.2	0.2	0.2	0.2
26									0.4	0.2	0.2	0.2
27									0.4	0.2	0.2	0.2
28									0.4	0.2	0.3	0.3
29									0.4	0.2	0.3	0.3
30									0.4	0.2	0.3	0.3
31										0.2		0.3
Means.									0.4	0.3	0.2	0.4

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSISSIPPI RIVER SYSTEM—NEOSHO RIVER, OSWEGO, KANS.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1									0.9	0.6	0.2	0.2
2									0.9	0.6	0.2	0.2
3									0.9	0.6	0.1	0.3
4									1.0	0.6	0.1	0.3
5									1.1	0.6	0.3	0.3
6									1.1	0.6	0.4	0.3
7									1.1	0.6	0.3	0.3
8									1.0	0.6	0.2	0.3
9									0.8	0.6	0.3	0.3
10									0.7	0.6	0.3	0.3
11									0.7	0.5	0.3	0.3
12									0.7	0.5	0.2	0.4
13									0.7	0.5	0.1	0.3
14									0.6	0.4	0.1	0.3
15									0.6	0.4	0.1	0.3
16									0.6	0.4	0.1	0.3
17									0.6	0.4	0.2	0.3
18									0.6	0.4	0.3	0.3
19									0.6	0.4	0.3	0.3
20									0.6	0.4	0.3	0.3
21									0.6	0.3	0.3	0.3
22									0.6	0.3	0.3	0.3
23									1.5	0.3	0.2	0.3
24									0.7	0.3	0.2	0.3
25									0.5	0.3	0.2	0.3
26									0.5	0.3	0.2	0.3
27									0.5	0.2	0.2	0.3
28									0.5	0.2	0.2	0.3
29									0.5	0.2	0.2	0.2
30									0.6	0.2	0.2	0.2
31										0.2		0.3
Means									0.7	0.4	0.2	0.3

## MISSISSIPPI RIVER SYSTEM—NEOSHO RIVER, FORT GIBSON, IND. T.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1									11.0	10.0	9.2	9.0
2									11.0	10.8	9.2	9.0
3									11.0	10.6	9.3	9.0
4									11.0	10.4	9.3	9.0
5									11.0	10.2	9.3	9.0
6									10.9	10.0	9.4	9.0
7									10.9	9.8	9.4	9.0
8									10.8	9.6	9.4	9.0
9									10.8	9.4	9.4	9.0
10									10.8	9.2	9.4	9.0
11									10.9	9.2	9.4	8.9
12									11.0	9.0	9.5	8.9
13									11.0	9.0	9.4	8.9
14									10.9	8.8	9.2	8.9
15									10.0	8.8	9.2	8.9
16									10.0	8.6	9.2	8.9
17									10.0	8.6	9.2	9.0
18									10.8	8.6	9.1	9.0
19									10.8	8.6	9.1	9.0
20									11.0	8.6	9.1	9.0
21									11.0	8.8	9.1	9.0
22									11.0	8.8	9.1	9.0
23									11.0	8.8	9.1	9.0
24									11.8	9.2	9.0	9.0
25									11.8	9.0	9.0	9.0
26									11.6	9.0	9.0	9.0
27									11.4	9.0	9.0	9.0
28									11.2	9.0	9.0	9.0
29									11.0	9.0	9.0	9.0
30									10.0	9.0	9.0	9.0
31										9.2		
Means									10.9	9.2	9.2	9.0

## MISSISSIPPI RIVER SYSTEM—CANADIAN RIVER, CALVIN, IND. T.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1									1.1	0.1	-0.7	0.0
2									1.0	0.1	-0.7	0.0
3									0.6	0.0	-0.7	0.0
4									0.3	9.0	-0.7	0.0
5									0.8	4.2	-0.7	0.4
6									0.3	2.0	-0.7	0.4
7									0.2	1.2	-0.7	0.3
8									0.1	1.0	-0.7	0.3
9									0.0	0.6	-0.7	0.5
10									0.0	0.3	-0.7	0.5
11									1.7	0.2	-0.7	0.5
12									1.6	0.0	-0.7	0.4
13									1.4	-0.3	-0.7	0.3
14									1.2	-0.7	-0.7	0.3
15									1.1	-0.6	-0.7	1.6
16									0.8	-0.3	-0.7	1.3
17									0.6	0.2	-0.7	1.1
18									0.5	0.3	-0.7	0.8
19									0.4	0.2	-0.7	0.5
20									0.4	0.0	-0.7	0.4
21									0.4	-0.2	-0.7	0.4
22									0.6	-0.4	-0.7	0.3
23									0.5	-0.7	-0.7	0.4
24									0.4	-0.9	-0.7	1.2
25									0.3	-0.4	-0.7	1.2
26									0.8	-0.6	-0.7	0.8
27									0.5	-0.7	-0.7	0.7
28									0.4	-0.7	0.0	0.5
29									0.2	-0.7	0.0	0.5
30									0.2	-0.7	0.0	0.4
31									-0.7	-0.7	-0.7	0.4
Means.									0.6	0.3	-0.6	0.5

## MISSISSIPPI RIVER SYSTEM—BLACK RIVER, BLACKROCK, ARK.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1								2.6	2.2	0.8	1.2	1.4
2								2.4	2.1	0.6	1.2	1.4
3								2.2	2.1	0.5	1.4	1.4
4								2.2	2.7	0.4	1.4	1.4
5								2.1	2.6	0.5	1.4	1.4
6								2.0	2.4	2.0	1.4	1.4
7								1.8	2.2	1.9	1.4	1.4
8								1.7	2.0	1.9	1.4	1.4
9								1.6	1.9	1.8	1.4	1.4
10								1.5	1.8	1.6	1.4	1.4
11								1.4	1.6	1.6	1.4	1.4
12								1.3	1.5	1.5	1.4	1.4
13								1.3	1.4	1.5	1.4	1.4
14								1.2	1.2	1.4	1.4	1.4
15								1.0	1.1	1.4	1.4	1.4
16							5.5	0.9	1.0	1.3	1.4	1.4
17							5.0	0.8	0.9	1.3	1.4	1.4
18							4.8	0.8	0.9	1.3	1.4	1.4
19							4.4	1.2	0.8	1.2	1.4	1.4
20							4.1	1.4	0.7	1.2	1.4	1.4
21							4.1	1.6	0.6	1.2	1.4	1.4
22							4.0	1.1	0.6	1.2	1.4	1.4
23							5.0	1.0	0.5	1.2	1.4	1.4
24							4.1	1.9	0.4	1.2	1.4	1.6
25							4.0	1.9	0.9	1.2	1.4	1.6
26							3.8	2.5	0.9	1.2	1.4	1.5
27							3.6	2.9	1.5	1.2	1.4	1.5
28							3.3	2.8	1.0	1.2	1.4	1.5
29							3.0	2.6	1.0	1.2	1.4	1.4
30							2.8	2.4	0.9	1.2	1.4	1.4
31							2.6	2.3	-	1.2	-	1.4
Means.							4.0	1.8	1.4	1.3	1.4	1.4

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSISSIPPI RIVER SYSTEM—WHITE RIVER, CALICOROCK, ARK.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1								2.1	0.6	-0.2	-0.6	-0.7
2								1.8	0.5	-0.2	-0.6	-0.7
3								1.9	0.9	-0.2	-0.6	-0.7
4								1.5	2.2	-0.2	-0.7	-0.7
5								1.4	0.7	-0.2	-0.7	-0.7
6								1.3	0.5	-0.1	-0.7	-0.7
7								1.7	0.3	-0.1	-0.7	-0.7
8								1.7	0.2	-0.2	-0.7	-0.7
9								2.7	0.0	-0.2	-0.7	-0.7
10								2.2	0.0	-0.3	-0.7	-0.7
11								1.7	-0.1	-0.3	-0.7	-0.7
12								1.4	-0.1	-0.3	-0.7	-0.7
13								1.2	-0.1	-0.4	-0.7	-0.7
14								1.0	-0.1	-0.4	-0.7	-0.7
15							4.3	0.8	-0.2	-0.4	-0.7	-0.7
16							3.5	0.7	-0.2	-0.4	-0.7	-0.7
17							2.9	0.6	-0.2	-0.4	-0.7	-0.7
18							2.4	0.5	-0.2	-0.4	-0.7	-0.7
19							2.0	0.6	-0.2	-0.4	-0.7	-0.7
20							1.9	0.5	-0.2	-0.5	-0.7	-0.7
21							1.8	0.4	-0.2	-0.6	-0.7	-0.7
22							2.5	2.0	-0.2	-0.6	-0.7	-0.7
23							3.9	1.8	-0.2	-0.6	-0.7	-0.7
24							3.3	1.7	-0.2	-0.6	-0.7	-0.7
25							2.3	3.3	-0.2	-0.6	-0.7	-0.7
26							2.1	2.5	-0.1	-0.6	-0.7	-0.7
27							1.9	1.9	-0.1	-0.6	-0.7	-0.7
28							1.8	1.5	0.0	-0.6	-0.7	-0.7
29							2.1	1.2	0.0	-0.6	-0.7	-0.7
30							3.0	1.0	-0.2	-0.6	-0.7	-0.7
31							2.5	0.8		-0.6		-0.7
Means.							2.6	1.5	0.1	-0.4	-0.7	-0.7

## MISSISSIPPI RIVER SYSTEM—WHITE RIVER, BATESVILLE, ARK.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1								4.8	3.2	2.5	2.2	2.2
2								4.5	3.1	2.5	2.2	2.2
3								4.2	3.1	2.5	2.2	2.2
4								4.1	3.0	2.5	2.2	2.2
5								4.1	3.9	2.5	2.2	2.2
6								3.8	3.2	2.6	2.2	2.2
7								4.0	2.9	2.7	2.2	2.2
8								4.0	2.9	2.6	2.2	2.2
9								3.9	2.9	2.6	2.2	2.2
10								4.3	2.8	2.5	2.1	2.3
11								4.4	2.7	2.4	2.1	2.3
12								4.0	2.6	2.4	2.1	2.3
13								3.7	2.6	2.4	2.1	2.3
14								3.6	2.6	2.4	2.0	2.3
15							6.5	3.5	2.5	2.4	1.9	2.3
16							6.1	3.4	2.5	2.4	1.8	2.3
17							5.5	3.2	2.5	2.4	1.8	2.3
18							4.9	3.2	2.5	2.3	1.7	2.3
19							4.4	3.1	2.5	2.3	1.7	2.3
20							4.2	3.1	2.7	2.3	1.7	2.3
21							4.1	3.1	2.7	2.3	1.8	2.3
22							4.0	3.0	2.5	2.3	2.1	2.3
23							5.2	3.8	2.5	2.3	2.1	2.3
24							5.4	4.0	2.5	2.3	2.2	2.3
25							5.0	3.8	2.5	2.3	2.2	2.3
26							4.3	5.1	2.4	2.2	2.2	2.4
27							4.0	4.5	2.6	2.2	2.2	2.4
28							4.0	4.1	2.6	2.2	2.2	2.3
29							3.8	3.8	2.6	2.2	2.2	2.3
30							3.9	3.5	2.6	2.2	2.2	2.3
31							5.1	3.4		2.2		2.3
Means.							4.7	3.8	2.7	2.4	2.1	2.3

## MISSISSIPPI RIVER SYSTEM—WHITE RIVER, NEWPORT, ARK.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	4.2	4.3	13.4	5.5	14.6	6.7	5.0	2.7	3.0	3.0	2.3	16.8
2.....	4.0	4.0	17.9	5.1	14.2	6.5	4.7	2.5	4.0	3.1	2.2	13.8
3.....	3.7	3.8	18.5	4.8	13.3	7.4	4.5	2.3	4.4	2.9	6.1	12.7
4.....	3.4	3.7	17.7	4.5	12.4	7.9	4.5	2.1	3.9	2.7	6.3	11.0
5.....	3.2	3.6	17.0	4.3	11.2	7.5	4.2	2.0	4.2	2.7	6.2	9.5
6.....	3.0	3.4	16.5	4.2	10.1	7.1	4.0	2.0	3.9	2.6	8.2	8.2
7.....	2.9	3.3	16.0	4.0	9.1	7.1	3.8	1.7	3.5	2.5	7.1	7.3
8.....	2.7	3.4	15.5	4.0	8.8	6.8	3.6	1.5	3.1	2.3	5.6	6.5
9.....	2.7	4.2	15.9	4.0	9.5	6.5	3.4	1.4	3.3	2.1	4.5	6.0
10.....	2.6	10.6	16.1	4.0	13.0	6.0	3.3	1.3	3.5	1.9	3.8	5.5
11.....	2.7	13.5	16.3	4.0	14.3	5.6	3.1	1.3	3.1	1.8	3.4	5.1
12.....	3.4	13.8	16.0	4.2	13.8	5.6	3.0	1.2	2.6	1.7	3.0	4.7
13.....	3.6	15.8	15.2	4.3	12.7	5.5	3.0	1.2	2.2	1.6	2.7	4.4
14.....	3.3	15.8	14.1	4.3	11.8	5.4	3.0	1.1	2.1	1.6	2.5	4.1
15.....	3.1	14.0	13.1	4.3	10.6	5.7	2.9	1.0	2.0	1.5	2.3	3.9
16.....	3.0	12.1	12.0	4.4	9.5	6.0	2.7	1.0	2.0	1.5	2.1	3.7
17.....	2.9	10.4	11.0	5.1	8.5	6.7	2.5	0.9	2.0	1.4	2.0	3.5
18.....	3.1	9.2	10.2	6.4	7.8	7.5	2.3	0.8	2.5	1.3	1.9	3.3
19.....	3.5	8.2	9.5	7.2	7.2	8.2	2.5	0.8	2.4	1.2	1.9	3.5
20.....	6.5	7.4	9.0	9.0	6.7	8.1	2.7	0.7	2.5	1.2	4.6	3.8
21.....	9.4	7.3	8.6	9.2	6.3	7.2	2.7	0.7	2.3	1.1	13.4	5.1
22.....	10.4	9.1	8.5	9.7	5.9	6.3	2.9	0.7	2.5	1.3	15.5	7.3
23.....	11.0	9.6	8.2	10.5	5.6	5.2	3.2	0.7	3.0	1.5	15.5	7.6
24.....	10.0	9.7	7.8	10.5	5.5	5.8	3.5	0.7	3.2	2.2	16.3	6.7
25.....	8.8	9.9	7.5	10.8	5.1	5.7	3.4	0.7	3.2	3.1	18.6	6.7
26.....	7.8	9.7	7.3	12.2	4.8	5.5	3.4	0.7	3.6	3.1	20.5	7.0
27.....	6.7	9.4	7.0	14.3	4.5	5.5	3.3	1.2	3.6	2.8	21.3	6.2
28.....	6.0	9.4	7.0	14.4	4.3	5.7	3.1	1.7	3.1	2.5	21.0	6.8
29.....	5.4	.....	6.7	14.5	4.2	5.6	3.1	2.0	2.9	2.5	20.4	6.0
30.....	5.0	.....	6.3	14.6	4.1	5.3	2.9	2.5	2.7	2.6	19.0	5.6
31.....	4.6	.....	5.9	.....	4.1	.....	2.8	3.0	.....	2.4	.....	5.4
<b>Means.</b>	<b>4.9</b>	<b>8.5</b>	<b>12.0</b>	<b>7.3</b>	<b>8.8</b>	<b>6.4</b>	<b>3.3</b>	<b>1.4</b>	<b>3.0</b>	<b>2.1</b>	<b>8.7</b>	<b>6.7</b>
<b>1901</b>												
1.....	5.2	3.1	3.4	8.5	12.1	2.4	0.9	0.0	0.0	-0.2	-0.2	0.1
2.....	4.8	3.0	3.3	9.2	11.0	2.3	0.9	0.0	0.0	-0.3	-0.2	0.1
3.....	4.6	4.4	3.2	11.2	10.0	2.3	0.9	0.0	0.0	-0.3	-0.2	0.1
4.....	4.3	7.5	3.1	13.8	9.0	2.1	0.6	0.0	0.0	-0.3	-0.2	0.1
5.....	4.1	8.0	2.9	14.8	8.3	2.1	0.6	0.2	0.0	-0.3	-0.2	0.1
6.....	3.9	7.7	2.8	15.0	7.8	1.9	0.6	0.2	0.0	-0.3	-0.2	0.1
7.....	3.8	7.4	2.7	14.8	7.3	1.9	0.7	0.2	-0.1	-0.3	-0.2	0.1
8.....	3.7	7.1	2.6	14.3	6.9	1.8	0.7	0.2	-0.1	-0.3	-0.2	0.1
9.....	3.4	6.9	3.5	13.5	6.5	1.7	0.7	0.2	-0.1	-0.3	-0.2	0.2
10.....	3.3	6.7	8.6	12.6	6.1	1.7	0.7	0.1	-0.1	-0.3	-0.1	0.3
11.....	3.4	6.6	16.9	11.6	5.8	1.5	0.5	0.1	-0.2	-0.3	-0.1	0.5
12.....	3.7	6.6	21.4	10.6	5.3	1.6	0.5	0.1	-0.2	-0.1	-0.1	0.5
13.....	4.8	6.6	22.7	9.8	5.0	1.6	0.5	0.1	-0.2	-0.1	-0.1	0.5
14.....	5.6	6.7	23.1	9.3	4.6	1.6	0.5	0.1	-0.1	-0.2	-0.1	2.0
15.....	5.9	6.6	23.5	8.9	4.3	1.5	0.4	0.1	-0.1	-0.2	-0.1	3.7
16.....	6.7	6.5	23.0	9.1	4.1	1.5	0.3	0.1	-0.1	-0.2	-0.1	4.5
17.....	6.6	6.4	21.8	9.1	3.9	1.5	0.3	0.1	-0.1	-0.2	-0.1	4.1
18.....	5.9	6.1	20.6	10.6	4.1	1.5	0.3	0.1	0.0	-0.2	-0.1	3.8
19.....	5.4	5.9	19.1	14.5	4.4	1.4	0.2	0.1	0.0	-0.2	0.0	3.4
20.....	5.0	5.5	17.1	19.0	3.9	1.4	0.2	0.1	-0.2	-0.2	0.0	3.2
21.....	4.6	5.2	16.0	20.9	3.7	1.4	0.2	0.2	-0.2	-0.2	0.0	2.2
22.....	4.2	5.0	14.3	21.9	3.4	1.4	0.2	0.2	-0.2	-0.2	0.1	2.1
23.....	4.0	4.7	12.3	22.0	3.3	1.1	0.2	0.2	-0.2	-0.2	0.1	2.4
24.....	4.1	4.4	11.6	21.0	3.3	1.1	0.2	0.2	-0.2	-0.2	0.1	2.7
25.....	4.3	4.1	10.8	19.7	3.2	1.1	0.1	0.2	-0.2	-0.2	0.1	2.7
26.....	4.0	3.9	10.2	18.3	3.0	1.0	0.1	0.2	-0.2	-0.2	0.1	2.1
27.....	3.8	3.7	9.7	17.1	2.8	1.0	0.1	0.2	-0.2	-0.2	0.1	1.7
28.....	3.6	3.5	9.5	15.7	2.7	1.0	0.1	0.2	-0.2	-0.2	0.1	1.1
29.....	3.4	.....	9.3	14.3	2.7	1.0	0.1	0.0	-0.2	-0.2	0.1	1.4
30.....	3.3	.....	9.2	13.2	2.7	1.0	0.0	0.0	-0.2	-0.2	0.1	1.2
31.....	3.3	.....	9.0	.....	2.5	.....	0.0	0.0	.....	-0.2	.....	1.1
<b>Means.</b>	<b>4.4</b>	<b>5.7</b>	<b>11.8</b>	<b>14.1</b>	<b>5.3</b>	<b>1.5</b>	<b>0.4</b>	<b>0.1</b>	<b>-0.1</b>	<b>-0.2</b>	<b>-0.1</b>	<b>1.6</b>

## MISSISSIPPI RIVER SYSTEM—WHITE RIVER, NEWPORT, ARK.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	1.0	0.8	15.6	16.1	4.3	4.2	3.5	1.2	1.1	1.0	0.3	13.7
2.....	0.9	0.7	18.1	16.5	6.5	3.7	9.3	1.0	1.5	1.0	0.3	11.6
3.....	0.8	0.6	18.0	15.7	6.3	3.2	12.6	1.4	2.1	1.0	0.2	11.0
4.....	0.7	0.5	17.0	14.1	5.7	3.8	12.8	1.2	2.2	1.0	0.2	10.7
5.....	0.7	0.4	15.5	12.6	5.0	3.7	11.4	1.0	2.0	1.0	0.3	10.5
6.....	0.7	0.4	13.8	11.4	4.8	4.2	9.8	1.0	1.8	1.0	0.3	11.0
7.....	0.6	0.3	12.0	10.6	4.7	4.2	8.0	1.3	1.6	1.0	0.3	11.2
8.....	0.6	0.3	10.4	9.9	4.3	3.7	6.5	1.2	1.4	1.0	0.4	11.4
9.....	0.5	0.3	8.8	9.0	4.3	3.6	5.4	1.0	1.3	1.0	0.4	11.5
10.....	0.5	0.4	7.6	8.0	4.8	3.3	4.5	0.7	1.2	1.0	0.4	11.5
11.....	0.5	0.4	6.5	7.5	5.0	3.3	3.9	0.5	1.2	1.2	0.4	11.2
12.....	0.5	0.4	5.9	7.0	4.9	3.3	3.4	0.4	1.2	1.3	0.4	10.8
13.....	0.5	0.4	6.0	6.5	4.8	3.3	3.2	0.3	1.2	1.2	0.4	10.3
14.....	0.4	0.4	5.9	6.2	4.3	2.3	3.0	0.3	1.3	1.2	0.5	10.6
15.....	0.4	0.4	10.4	6.0	3.9	2.3	2.7	0.2	1.3	1.2	0.5	14.5
16.....	0.4	0.3	14.4	6.1	3.6	1.9	2.5	0.4	1.3	1.2	0.6	20.3
17.....	0.3	0.3	14.6	6.0	3.9	1.7	2.4	0.4	1.3	1.2	1.0	22.7
18.....	0.3	0.3	12.8	6.5	7.2	1.8	2.3	0.3	1.3	1.0	1.7	24.0
19.....	0.3	0.4	10.4	6.5	6.7	2.7	2.1	0.2	1.8	0.9	1.6	24.4
20.....	0.2	0.9	8.8	6.2	5.8	2.8	1.9	0.2	2.0	0.8	2.6	24.4
21.....	0.2	1.3	7.1	6.0	5.3	2.6	1.7	0.2	2.0	0.7	3.0	23.7
22.....	0.2	1.7	6.0	5.3	7.0	2.2	1.6	0.2	1.8	0.6	2.9	22.7
23.....	0.2	1.8	5.0	4.6	5.6	2.2	1.4	0.2	1.7	0.6	2.8	21.5
24.....	0.2	2.6	4.4	4.1	4.5	3.5	1.3	0.2	1.5	0.5	3.0	20.6
25.....	0.2	5.1	4.0	3.8	3.9	4.1	1.2	0.2	1.5	0.5	3.6	19.5
26.....	0.3	6.5	3.9	3.4	3.8	3.9	1.1	0.3	1.2	0.5	8.2	18.4
27.....	0.3	8.8	4.8	3.2	3.3	4.3	1.0	0.4	1.1	0.4	13.9	17.3
28.....	0.5	12.4	6.0	3.0	3.1	2.9	1.0	0.5	1.0	0.4	15.4	16.2
29.....	0.7	.....	7.0	3.5	5.3	2.6	1.0	0.6	1.0	0.4	14.9	15.0
30.....	0.7	.....	11.8	4.0	5.2	3.0	1.0	0.6	1.0	0.4	15.2	14.0
31.....	0.8	.....	15.1	.....	4.9	.....	1.3	0.6	.....	0.3	.....	12.9
<b>Means.</b>	<b>0.5</b>	<b>1.8</b>	<b>9.9</b>	<b>7.9</b>	<b>4.9</b>	<b>3.1</b>	<b>4.0</b>	<b>0.6</b>	<b>1.5</b>	<b>0.9</b>	<b>3.2</b>	<b>15.8</b>
<b>1903</b>												
1.....	12.0	5.7	20.2	17.5	6.8	20.4	5.6	3.0	1.4	1.3	1.0	0.6
2.....	11.4	5.5	20.7	16.2	6.5	21.4	5.3	2.9	1.4	1.4	1.0	0.7
3.....	11.7	5.4	20.9	14.8	6.2	23.2	5.0	2.8	1.3	1.5	1.0	0.7
4.....	10.8	7.9	20.9	13.4	5.9	24.4	4.7	2.8	1.3	1.5	1.0	0.7
5.....	10.7	11.6	20.5	12.1	5.7	25.0	4.5	2.6	1.2	1.7	1.1	0.7
6.....	11.1	12.8	20.1	11.0	5.4	25.6	4.3	2.6	1.3	1.9	1.1	0.6
7.....	11.1	13.3	20.2	10.0	5.3	25.6	4.1	2.7	1.2	2.3	1.0	0.6
8.....	10.6	13.1	23.0	9.4	5.2	25.2	4.1	3.0	1.2	2.4	1.2	0.6
9.....	10.1	13.0	25.0	9.1	5.1	24.4	3.9	3.2	1.2	2.3	1.2	0.6
10.....	9.5	13.0	26.7	8.9	5.0	23.3	3.8	3.2	1.2	2.2	1.2	0.6
11.....	9.0	12.0	28.1	9.0	4.9	21.9	3.9	3.2	1.2	2.2	1.2	0.6
12.....	8.4	11.7	28.7	9.1	5.3	20.5	3.7	3.2	1.2	2.4	1.2	0.5
13.....	7.8	11.6	28.7	9.6	5.3	18.9	3.6	3.0	1.2	2.4	1.1	0.5
14.....	7.2	12.4	27.7	9.9	10.1	17.0	3.7	3.0	1.2	2.5	1.0	0.5
15.....	6.6	13.2	26.7	11.6	16.4	15.2	4.0	3.0	1.1	2.4	1.0	0.5
16.....	6.2	19.1	25.8	13.0	20.3	13.7	3.7	3.3	1.1	2.3	1.0	0.8
17.....	5.8	22.8	24.8	13.8	22.9	12.2	3.4	3.3	1.2	2.2	1.0	0.8
18.....	5.5	24.9	23.9	14.0	23.4	11.0	3.3	3.6	1.4	2.1	1.0	0.8
19.....	5.2	25.7	23.0	14.0	22.4	9.7	4.1	3.3	1.7	1.9	0.6	0.8
20.....	4.9	26.6	22.4	13.6	21.6	8.8	4.6	3.0	1.7	1.8	0.6	0.9
21.....	4.6	25.3	22.0	13.1	21.4	8.0	4.8	2.6	1.6	1.8	0.8	0.9
22.....	4.3	24.2	23.2	12.5	22.5	8.1	4.1	2.4	1.7	1.6	0.7	1.0
23.....	4.1	23.1	24.1	11.7	23.7	7.7	3.8	2.3	1.7	1.5	0.7	1.0
24.....	3.9	21.9	24.3	10.8	24.8	7.1	3.5	2.1	1.7	1.5	0.7	1.3
25.....	3.8	21.0	24.2	9.9	25.3	6.8	3.5	2.0	1.7	1.3	0.7	1.7
26.....	3.7	20.0	23.6	9.2	24.8	6.3	3.5	2.0	1.5	1.3	0.5	2.4
27.....	3.7	19.4	22.6	8.6	23.3	6.2	3.3	1.9	1.4	1.2	0.3	2.7
28.....	4.7	19.5	21.7	8.1	22.0	6.5	3.3	1.7	1.4	1.2	0.3	3.1
29.....	5.4	.....	20.6	7.6	20.4	6.4	3.3	1.6	1.2	1.1	0.2	3.1
30.....	5.4	.....	19.6	7.2	19.4	6.0	3.1	1.5	1.2	1.1	0.2	3.1
31.....	5.7	.....	18.5	.....	19.3	.....	3.1	1.5	.....	1.0	.....	3.7
<b>Means.</b>	<b>7.8</b>	<b>16.3</b>	<b>23.3</b>	<b>11.3</b>	<b>14.7</b>	<b>15.2</b>	<b>4.0</b>	<b>2.7</b>	<b>1.4</b>	<b>1.8</b>	<b>0.9</b>	<b>1.2</b>



## MISSISSIPPI RIVER SYSTEM—WHITE RIVER, NEWPORT, ARK.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	3.5	13.0	6.0	26.3	17.0	4.0	8.7	4.2	2.2	1.0	0.3	0.2
2.....	3.2	11.4	5.6	25.0	16.6	3.9	9.6	3.8	2.1	0.9	0.3	0.2
3.....	3.0	10.0	5.4	23.7	16.2	7.6	9.5	3.6	2.0	0.8	0.3	0.2
4.....	2.6	8.7	5.1	22.6	15.7	8.1	8.8	3.4	2.0	0.9	0.3	0.2
5.....	2.4	7.8	4.9	21.7	15.2	7.9	8.7	3.5	2.1	1.0	0.2	0.2
6.....	2.1	7.0	4.7	20.9	14.7	10.0	8.4	3.2	2.5	1.3	0.3	0.2
7.....	2.1	6.5	4.6	20.0	14.5	16.0	8.4	2.9	2.0	1.1	0.3	0.2
8.....	2.1	6.5	4.5	19.5	14.2	20.0	8.3	3.0	1.7	1.1	0.3	0.3
9.....	2.0	6.2	4.4	19.1	14.1	22.2	7.8	3.0	1.5	1.0	0.3	0.3
10.....	1.7	6.0	4.2	19.0	14.0	22.0	7.8	3.1	1.5	0.9	0.3	0.3
11.....	1.7	6.1	4.3	19.1	13.7	20.5	8.0	3.5	1.4	0.9	0.2	0.3
12.....	1.6	6.0	4.3	19.2	13.3	17.5	8.2	3.3	1.4	0.8	0.2	0.3
13.....	1.5	5.7	4.2	19.1	12.7	14.8	9.5	2.8	1.2	0.8	0.2	0.3
14.....	1.4	5.4	4.3	19.0	12.2	12.3	9.9	2.6	1.1	0.7	0.2	0.3
15.....	1.4	5.1	4.4	18.5	11.7	10.1	9.3	2.3	1.1	0.7	0.2	0.3
16.....	1.3	4.9	4.7	18.0	11.2	8.5	8.8	2.2	1.1	0.6	0.1	0.2
17.....	1.3	4.6	4.9	17.5	10.4	7.1	7.7	2.1	1.0	0.6	0.1	0.2
18.....	1.3	4.4	5.0	17.0	9.8	6.4	6.6	2.0	1.0	0.6	0.1	0.2
19.....	1.2	4.8	5.6	16.7	9.1	5.7	5.8	2.0	1.0	0.6	0.1	0.2
20.....	1.2	4.8	6.4	16.4	8.4	5.3	4.9	1.9	1.0	0.6	0.1	0.2
21.....	1.2	4.6	10.1	16.1	7.8	5.0	4.0	1.8	1.1	0.5	0.2	0.2
22.....	5.8	5.9	11.3	15.6	7.2	5.0	4.0	1.8	1.0	0.5	0.0	0.2
23.....	15.0	6.6	11.2	15.1	6.7	5.3	5.5	1.8	1.0	0.4	0.0	0.2
24.....	21.0	6.7	10.9	14.5	6.3	5.3	5.9	2.7	0.9	0.4	0.0	0.3
25.....	22.5	6.5	10.9	14.1	5.8	5.4	5.5	2.9	0.9	0.4	0.0	0.5
26.....	22.8	6.4	14.8	15.1	5.5	6.0	5.0	3.6	0.9	0.4	0.2	0.6
27.....	22.3	6.2	21.0	16.4	5.0	6.3	4.3	3.9	0.9	0.4	0.2	0.6
28.....	20.8	6.2	26.6	17.0	4.7	7.4	3.9	3.6	1.1	0.4	0.2	0.6
29.....	18.7	6.1	28.9	17.3	4.5	8.6	3.5	3.2	1.1	0.3	0.2	0.4
30.....	17.0	.....	28.5	17.3	4.2	8.7	3.5	2.8	1.1	0.3	0.2	0.3
31.....	14.8	.....	27.8	.....	4.1	.....	3.2	2.5	.....	0.3	.....	0.3
Means.	7.1	6.6	9.7	18.6	10.5	9.8	6.9	2.9	1.4	0.7	0.2	0.3

## MISSISSIPPI RIVER SYSTEM—WHITE RIVER, CLARENDON, ARK.

1904												
1.....								13.6	10.0			
2.....								12.9	9.8			
3.....								12.6	9.7			
4.....								12.4	9.7			
5.....								12.4	9.6			
6.....								12.0	9.0			
7.....								11.9	8.6			
8.....								11.7	8.6			
9.....								11.3	8.6			
10.....								10.9	8.5			
11.....								10.9	8.3			
12.....								10.7	8.0			
13.....								10.7	7.8			
14.....								10.7	7.7			
15.....							17.8	10.7	7.5			5.5
16.....							17.9	10.5	7.4			5.5
17.....							18.1	10.3	7.2			5.5
18.....							18.3	10.0	7.2			5.5
19.....							18.2	9.9	7.1			5.4
20.....							18.0	9.5	7.1			5.5
21.....							17.9	9.2	7.0			5.4
22.....							17.3	9.0	7.0			5.5
23.....							16.8	9.0	7.0			5.5
24.....							16.3	8.8	7.0			5.7
25.....							15.8	8.8	6.9			5.7
26.....							15.6	8.7	6.9			5.8
27.....							15.6	9.0	6.9			6.8
28.....							15.5	9.2	6.8			7.3
29.....							15.1	9.6	6.7			7.3
30.....							14.7	10.0	6.7			7.1
31.....							14.4	10.2	.....			6.9
Means.							16.7	10.9	7.9			6.0

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSISSIPPI RIVER SYSTEM—ARKANSAS RIVER, WICHITA, KANS.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	2.0	2.2	2.3	2.2	4.8	6.0	4.2	1.9	1.6	2.5	2.6	1.7
2.....	1.9	2.3	2.3	2.2	4.6	6.0	4.0	1.9	1.6	2.7	2.3	1.7
3.....	1.9	2.3	2.4	2.1	4.5	6.1	3.6	1.9	1.6	2.7	2.2	1.7
4.....	1.9	2.3	2.4	2.1	4.6	5.9	3.6	1.8	1.5	2.6	2.2	1.6
5.....	1.9	2.3	2.5	2.2	6.3	5.8	3.4	1.8	1.5	2.4	2.2	1.6
6.....	1.8	2.3	3.4	2.2	7.1	6.0	3.3	1.8	1.5	2.3	2.1	1.6
7.....	1.9	2.3	3.1	2.2	6.8	6.9	3.2	1.8	1.5	2.1	2.1	1.6
8.....	1.9	2.2	3.1	2.4	6.3	7.2	3.2	1.8	1.5	2.0	2.0	1.6
9.....	2.0	2.1	3.0	2.6	6.0	7.0	3.0	1.8	1.4	2.0	2.0	1.5
10.....	2.0	2.1	3.0	3.3	5.8	6.8	2.9	1.7	1.5	1.9	1.9	1.5
11.....	2.1	2.2	2.9	5.9	5.5	6.5	2.8	1.7	1.9	1.9	1.9	1.5
12.....	2.1	2.2	2.9	5.7	5.4	6.3	2.7	1.7	2.0	1.9	1.9	1.5
13.....	2.1	2.2	3.0	5.3	5.4	6.2	2.5	1.7	1.8	1.8	1.9	1.5
14.....	2.2	2.2	2.8	5.2	5.3	6.7	2.4	1.7	1.7	1.8	1.9	1.5
15.....	2.2	2.2	2.7	5.1	5.4	6.4	2.2	1.7	1.8	1.8	1.9	1.5
16.....	2.3	2.2	2.6	5.2	5.9	6.2	2.5	1.7	1.8	1.8	1.8	1.5
17.....	2.4	2.2	2.5	5.4	6.0	6.1	2.3	1.7	1.8	1.7	1.8	1.4
18.....	2.5	2.2	2.5	4.9	6.1	6.0	2.3	1.7	2.0	1.7	1.8	1.5
19.....	2.5	2.2	2.4	4.7	6.2	5.8	2.3	1.6	2.0	1.7	1.8	1.5
20.....	2.5	2.2	2.3	4.6	5.8	5.6	2.4	1.6	1.9	1.6	1.8	1.5
21.....	2.5	2.2	2.3	5.6	5.6	5.2	2.3	1.5	1.8	1.7	1.8	1.5
22.....	2.5	2.3	2.3	7.0	5.5	5.0	2.3	1.5	1.8	1.9	1.8	1.6
23.....	2.4	2.3	2.3	5.9	5.5	4.8	2.2	1.5	1.8	1.9	1.8	1.7
24.....	2.4	2.3	2.2	5.3	5.3	4.7	2.3	1.4	2.0	1.9	1.8	1.8
25.....	2.4	2.3	2.4	5.0	5.2	4.5	2.2	1.3	2.1	1.9	1.8	1.7
26.....	2.3	2.3	2.2	4.9	6.4	4.3	2.2	1.3	2.1	1.9	1.8	1.7
27.....	2.3	2.4	2.2	4.8	7.0	4.1	2.1	1.2	2.3	1.9	1.8	1.6
28.....	2.3	2.3	2.3	5.1	7.4	4.0	2.0	1.6	2.4	1.9	1.7	1.6
29.....	2.2	.....	2.3	5.0	6.9	3.9	2.0	1.7	2.2	2.3	1.7	1.5
30.....	2.2	.....	2.2	4.9	6.3	4.2	2.0	1.6	2.2	2.4	1.7	1.5
31.....	2.1	.....	2.1	.....	6.0	.....	1.9	1.6	.....	2.2	.....	1.5
<b>Means.</b>	2.2	2.2	2.5	4.3	5.8	5.7	2.7	1.6	1.8	2.0	1.9	1.6
<b>1901</b>												
1.....	1.5	1.8	1.8	1.9	2.5	1.7	1.9	1.3	0.7	1.3	1.4	1.2
2.....	1.6	1.8	1.8	2.2	2.4	1.6	1.9	1.3	0.7	1.3	1.4	1.3
3.....	1.6	1.9	1.9	2.4	2.3	1.6	1.8	1.3	0.7	1.3	1.5	1.2
4.....	1.7	1.9	1.9	2.3	2.3	1.5	1.7	1.2	0.7	1.3	1.7	1.2
5.....	1.7	1.9	2.0	2.3	2.2	1.5	1.6	1.2	0.7	1.4	1.6	1.2
6.....	1.7	1.9	2.0	2.5	2.2	1.5	1.5	1.0	0.6	1.4	1.6	1.2
7.....	1.7	1.9	2.2	2.6	2.1	1.4	1.5	1.0	0.6	1.4	1.5	1.2
8.....	1.8	1.9	2.2	2.6	2.1	2.8	1.4	1.0	0.6	1.4	1.5	1.2
9.....	1.8	1.8	2.3	2.7	2.1	4.3	1.4	1.0	0.7	1.4	1.4	1.2
10.....	1.7	1.8	2.2	3.0	2.0	4.1	1.4	1.0	0.9	1.4	1.4	1.2
11.....	1.7	1.8	2.2	3.4	1.9	4.1	1.4	1.6	1.0	1.8	1.4	1.2
12.....	1.8	1.8	2.1	3.8	1.9	3.8	1.4	1.4	1.0	3.1	1.4	1.2
13.....	1.8	1.8	2.1	6.0	1.9	3.7	1.4	1.3	0.9	3.0	1.4	1.2
14.....	1.8	1.8	2.1	5.7	1.9	3.4	1.4	1.2	0.9	2.2	1.4	1.2
15.....	1.8	1.7	2.0	5.7	1.9	3.2	1.4	1.2	1.0	1.7	1.4	1.2
16.....	1.9	1.7	2.0	4.8	1.9	3.2	1.4	1.2	1.2	1.5	1.4	1.2
17.....	1.9	1.7	2.0	4.1	1.9	3.1	1.4	1.1	1.2	1.6	1.4	1.2
18.....	1.9	1.7	1.9	3.8	2.0	3.1	1.5	1.1	1.2	1.6	1.4	1.2
19.....	1.9	1.7	2.2	3.4	1.9	3.3	1.5	1.0	1.3	1.6	1.4	1.2
20.....	1.9	1.7	2.2	3.0	1.9	3.3	1.4	1.0	1.3	1.5	1.4	1.2
21.....	1.9	1.7	2.1	2.9	1.8	3.2	1.3	1.0	1.3	1.5	1.4	1.2
22.....	1.9	1.7	2.1	2.8	1.9	3.2	1.3	0.9	1.3	1.5	1.3	1.2
23.....	1.9	1.8	2.2	2.7	2.0	3.1	1.3	0.9	1.4	1.5	1.3	1.2
24.....	1.9	1.8	2.1	2.6	1.9	3.0	1.3	0.9	1.3	1.5	1.3	1.1
25.....	1.9	1.7	2.0	2.5	1.9	2.8	1.3	0.8	1.5	1.4	1.3	1.1
26.....	1.8	1.7	2.0	2.4	1.8	2.5	1.3	0.8	1.7	1.4	1.3	1.1
27.....	1.8	1.7	2.0	2.5	1.8	2.2	1.3	0.8	1.5	1.4	1.3	1.1
28.....	1.8	1.8	1.9	2.6	1.8	2.1	1.3	0.8	1.4	1.4	1.3	1.1
29.....	1.8	.....	1.9	2.5	1.7	2.0	1.3	0.8	1.4	1.4	1.3	1.1
30.....	1.8	.....	1.9	2.5	1.7	2.0	1.3	0.8	1.3	1.4	1.2	1.1
31.....	1.8	.....	1.9	.....	1.7	.....	1.3	0.8	.....	1.4	.....	1.0
<b>Means.</b>	1.8	1.8	2.0	3.1	2.0	2.7	1.4	1.1	1.1	1.6	1.4	1.2

## MISSISSIPPI RIVER SYSTEM—ARKANSAS RIVER, WICHITA, KANS.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	1.0	0.9	2.0	1.4	1.4	1.9	2.7	1.9	2.5	2.2	1.4	1.4
2.....	1.1	0.9	1.9	1.4	1.4	5.7	2.7	1.8	2.3	2.4	1.4	1.4
3.....	1.0	0.9	1.9	1.4	1.4	5.9	2.8	1.8	2.1	2.4	1.4	1.4
4.....	1.0	0.9	1.8	1.4	1.4	5.0	3.2	1.7	2.0	2.4	1.5	1.3
5.....	1.0	0.9	1.8	1.5	1.4	4.5	3.4	1.6	2.0	2.4	1.5	1.2
6.....	1.0	1.0	1.7	1.5	1.4	4.1	3.7	1.6	2.0	2.4	1.5	1.3
7.....	1.0	1.0	1.6	1.5	1.4	4.1	3.4	1.6	2.0	2.4	1.4	1.4
8.....	1.0	1.0	1.5	1.5	1.4	4.0	2.8	1.5	1.9	2.3	1.4	1.2
9.....	1.0	1.0	1.5	1.4	1.4	4.0	2.7	1.7	1.7	2.3	1.4	1.5
10.....	1.0	1.1	1.5	1.4	1.4	3.3	2.8	1.8	1.7	2.0	1.4	1.5
11.....	1.0	1.1	1.4	1.4	1.4	2.9	2.7	1.7	1.7	1.9	1.4	1.5
12.....	1.0	1.1	1.6	1.4	1.4	2.7	2.5	1.6	1.7	1.8	1.4	1.5
13.....	1.0	1.1	1.5	1.4	1.4	2.7	2.4	2.6	1.6	1.7	1.4	1.5
14.....	1.0	1.2	1.5	1.4	1.5	2.6	2.4	2.5	1.5	1.7	1.5	1.5
15.....	1.0	1.2	1.5	1.4	1.8	2.4	2.7	2.5	1.5	1.7	1.5	1.5
16.....	0.9	1.2	1.5	1.4	2.0	2.3	2.8	2.3	1.5	1.6	1.5	1.4
17.....	0.9	1.2	1.4	1.4	1.8	2.3	2.9	2.2	1.5	1.5	1.5	1.3
18.....	0.9	1.2	1.4	1.4	1.8	2.5	2.9	2.0	1.5	1.5	1.5	1.4
19.....	0.9	1.2	1.4	1.4	1.6	2.7	2.8	1.8	1.5	1.5	1.4	1.5
20.....	0.9	1.2	1.4	1.4	1.6	2.7	2.5	1.7	1.4	1.5	1.4	1.5
21.....	0.9	1.3	1.5	1.4	1.8	2.8	2.4	2.1	1.4	1.5	1.4	1.5
22.....	0.8	1.3	1.5	1.4	3.2	2.8	2.0	2.9	1.5	1.5	1.5	1.6
23.....	0.8	1.6	1.5	1.4	5.5	2.8	2.0	3.3	1.6	1.5	1.4	1.5
24.....	0.9	1.7	1.5	1.4	4.9	2.8	1.9	4.1	1.6	1.5	1.4	1.5
25.....	0.9	1.8	1.5	1.4	4.0	2.8	1.9	4.0	1.7	1.5	1.4	1.5
26.....	0.9	1.9	1.5	1.4	3.8	2.9	1.8	4.1	1.6	1.5	1.4	1.4
27.....	0.9	2.0	1.5	1.4	3.2	2.9	1.8	4.2	1.5	1.5	1.4	1.4
28.....	0.9	2.0	1.5	1.4	2.7	2.7	2.0	3.8	1.5	1.5	1.4	1.3
29.....	0.9	-----	1.4	1.4	2.4	2.7	1.9	3.4	1.8	1.5	1.4	1.3
30.....	0.9	-----	1.4	1.4	2.0	2.7	2.0	3.1	2.0	1.4	1.4	1.3
31.....	0.9	-----	1.4	1.4	2.0	-----	2.0	3.7	-----	1.5	1.4	1.4
<b>Means.</b>	0.9	1.2	1.5	1.4	2.1	3.2	2.5	2.4	1.7	1.8	1.4	1.4
<b>1903</b>												
1.....	1.5	1.6	1.4	1.6	1.6	7.5	3.6	1.4	1.1	0.6	1.3	0.4
2.....	1.6	1.6	1.4	1.6	1.7	7.6	3.4	1.5	1.1	0.6	1.6	0.4
3.....	1.6	1.6	1.5	1.7	1.7	7.3	3.2	1.6	1.0	0.7	1.5	0.4
4.....	1.6	1.6	1.6	1.7	1.7	6.2	3.0	2.0	1.0	0.7	2.0	0.4
5.....	1.5	1.6	1.7	1.7	1.7	4.8	2.9	2.5	0.8	0.6	1.8	0.4
6.....	1.6	1.6	1.8	1.7	1.7	3.9	2.8	2.4	0.8	0.6	1.5	0.2
7.....	1.4	1.4	1.7	1.7	1.7	3.3	2.6	2.2	0.8	0.5	1.3	0.3
8.....	1.3	1.3	1.9	1.6	1.8	2.9	2.5	2.2	0.8	0.4	1.1	0.4
9.....	1.3	1.4	1.9	1.6	1.9	2.7	2.4	2.3	0.8	0.4	1.1	0.4
10.....	1.3	1.6	1.9	1.6	1.9	2.3	2.4	2.4	0.9	0.4	1.0	0.4
11.....	1.3	1.6	1.9	1.6	2.0	2.2	2.3	2.4	0.8	0.4	0.8	0.4
12.....	1.3	1.6	2.0	1.5	2.1	2.0	2.2	2.5	1.0	0.4	0.8	0.4
13.....	1.2	1.5	2.0	1.5	2.2	2.0	2.1	2.4	1.3	0.7	0.7	0.3
14.....	1.2	1.5	2.0	1.5	2.3	1.8	2.0	2.0	1.0	0.7	0.6	0.3
15.....	1.2	1.5	2.3	1.5	2.2	6.4	1.9	1.8	1.0	0.7	0.6	0.3
16.....	1.2	1.5	2.2	1.5	2.1	6.0	1.9	1.7	0.8	0.6	0.6	0.2
17.....	1.2	1.3	2.1	1.5	2.0	5.0	1.8	1.8	0.7	0.6	0.6	0.2
18.....	1.1	1.5	2.0	1.4	2.0	4.4	1.7	1.8	0.7	0.6	0.4	0.4
19.....	1.2	1.3	2.1	1.4	2.1	4.2	1.6	2.0	0.6	0.6	0.1	0.6
20.....	1.3	1.1	2.2	1.4	2.2	4.0	1.6	2.1	0.6	0.6	0.1	0.7
21.....	1.4	1.1	2.2	1.4	2.9	4.2	1.5	2.2	0.6	0.5	0.2	0.5
22.....	1.3	1.1	2.1	1.4	3.2	5.2	1.5	2.0	0.6	0.5	0.4	0.4
23.....	1.3	1.2	2.0	1.4	2.9	5.0	1.4	2.0	0.6	0.5	0.6	0.3
24.....	1.3	1.3	1.9	1.4	2.9	4.5	1.4	2.0	0.6	0.4	0.7	0.4
25.....	1.3	1.4	1.8	1.4	3.4	4.6	1.3	1.8	0.5	0.4	0.4	0.3
26.....	1.4	1.4	1.8	1.4	3.1	4.7	1.3	1.6	0.5	0.4	0.4	0.3
27.....	1.5	1.5	1.7	1.4	2.9	4.3	1.2	1.5	0.5	0.4	0.4	0.1
28.....	1.5	1.4	1.7	1.4	2.9	4.0	1.2	1.4	0.5	0.3	0.4	0.2
29.....	1.5	-----	1.7	1.5	3.6	4.0	1.2	1.3	0.6	0.3	0.4	0.3
30.....	1.5	-----	1.7	1.6	6.1	3.8	1.1	1.2	0.6	0.3	0.4	0.2
31.....	1.6	-----	1.6	-----	6.3	-----	1.2	1.2	-----	0.9	-----	0.3
<b>Means.</b>	1.4	1.4	1.9	1.5	2.5	4.4	2.0	1.9	0.8	0.5	0.8	0.3

## MISSISSIPPI RIVER SYSTEM—ARKANSAS RIVER, WICHITA, KANS.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	0.3	0.0	0.3	0.2	0.2	1.8	3.4	0.8	0.3	-0.2	0.9	0.3
2.....	0.2	0.1	0.2	0.1	0.2	2.4	3.2	0.7	0.3	-0.1	0.9	0.3
3.....	0.1	0.1	0.3	0.1	0.3	3.6	4.6	0.6	0.2	0.0	0.9	0.2
4.....	0.1	0.1	0.2	0.0	0.3	6.0	4.3	0.5	0.1	0.1	0.8	0.2
5.....	0.1	0.3	0.2	0.1	0.4	4.6	5.5	0.5	0.1	4.1	0.8	0.2
6.....	0.2	0.5	0.1	0.1	0.4	3.8	7.1	0.5	0.0	4.0	0.8	0.2
7.....	0.1	0.2	0.1	0.1	0.4	3.6	9.1	0.4	0.0	3.3	0.7	0.2
8.....	0.2	0.0	0.0	0.1	0.5	2.8	10.1	0.4	0.0	3.0	0.7	0.2
9.....	0.3	-0.1	0.0	0.1	0.7	2.5	10.2	0.3	-0.1	3.0	0.7	0.2
10.....	0.4	-0.1	-0.1	0.0	0.9	2.4	9.7	0.4	-0.1	2.7	0.7	0.2
11.....	0.4	-0.1	0.2	-0.1	1.6	2.2	8.6	0.3	0.1	2.4	0.6	0.2
12.....	0.3	-0.1	0.1	-0.2	1.4	2.0	7.6	0.4	0.3	2.2	0.6	0.1
13.....	0.3	0.1	0.0	-0.2	1.3	1.8	6.3	0.3	0.1	2.0	0.6	0.1
14.....	0.4	0.0	0.0	-0.2	1.1	1.7	4.8	0.3	0.0	2.0	0.6	0.0
15.....	0.3	-0.1	0.1	-0.2	0.9	4.1	3.9	0.3	0.0	1.8	0.6	0.0
16.....	0.2	-0.1	0.1	-0.2	0.9	4.3	2.8	0.2	-0.1	1.7	0.6	0.0
17.....	0.3	0.0	0.1	-0.2	0.9	4.1	2.3	0.1	-0.2	1.6	0.6	0.0
18.....	0.2	-0.1	0.1	-0.2	0.8	4.5	1.9	0.2	-0.2	1.5	0.6	-0.1
19.....	0.3	-0.1	0.1	-0.2	0.8	3.9	1.7	0.2	-0.2	1.4	0.6	0.0
20.....	0.4	0.0	0.3	0.0	0.7	3.8	1.6	0.3	-0.3	1.4	0.6	0.0
21.....	0.2	0.1	0.2	-0.1	0.9	3.5	1.4	0.3	-0.3	1.3	0.6	0.1
22.....	0.0	0.0	0.1	0.0	0.8	3.3	1.3	0.4	-0.1	1.2	0.6	0.2
23.....	0.1	0.4	0.0	0.0	0.8	3.0	1.3	0.3	-0.1	1.2	0.5	0.3
24.....	0.2	0.4	0.3	0.1	0.9	2.7	1.3	0.3	-0.2	1.2	0.5	0.4
25.....	0.3	0.4	0.7	2.1	0.6	2.5	1.3	0.4	-0.3	1.1	0.5	0.3
26.....	0.0	0.4	0.6	1.0	0.8	2.8	1.3	0.9	-0.3	1.1	0.4	0.2
27.....	0.0	0.4	0.4	1.0	1.2	4.2	1.2	0.9	-0.3	1.1	0.4	0.1
28.....	-0.1	0.4	0.3	0.6	1.1	3.8	1.0	0.7	-0.3	1.0	0.4	0.0
29.....	-0.1	0.4	0.3	0.4	2.0	3.6	1.0	0.5	-0.4	1.0	0.4	-0.1
30.....	-0.1	-----	0.2	0.3	2.4	3.4	1.0	0.5	-0.4	1.0	0.4	-0.2
31.....	-0.1	-----	0.2	-----	2.1	-----	0.9	0.5	-----	0.9	-----	-0.4
Means.	0.2	0.1	0.2	0.2	0.9	3.3	3.9	0.4	-0.1	1.6	0.6	0.1

## MISSISSIPPI RIVER SYSTEM—ARKANSAS RIVER, TULSA, IND. T.

1904												
1.....									3.0	2.2	2.2	1.9
2.....									3.0	2.2	2.2	1.8
3.....									2.9	2.2	2.1	1.8
4.....									2.8	2.1	2.1	1.8
5.....									2.8	2.1	2.1	1.8
6.....									2.7	2.0	2.1	1.8
7.....									2.6	2.0	2.1	1.9
8.....									2.5	2.1	2.1	1.9
9.....									2.5	2.5	2.1	1.9
10.....									2.5	3.4	2.0	1.9
11.....									2.5	3.5	2.0	1.9
12.....									2.5	3.5	2.0	1.8
13.....									2.5	3.2	2.0	1.8
14.....									2.5	3.2	2.0	1.8
15.....									2.4	3.0	2.0	1.8
16.....									2.4	2.9	2.0	1.8
17.....									2.3	2.8	2.0	1.8
18.....									2.3	2.8	2.0	1.8
19.....									2.3	2.7	2.0	1.8
20.....									2.4	2.6	1.9	1.8
21.....									2.4	2.5	1.9	1.8
22.....									2.4	2.4	1.9	1.7
23.....									2.4	2.4	1.9	1.7
24.....									2.4	2.3	1.9	1.7
25.....									2.3	2.3	1.9	1.7
26.....									2.4	2.3	1.9	1.7
27.....									2.4	2.3	1.9	1.7
28.....									2.4	2.2	1.9	Frozen.
29.....									2.3	2.2	1.9	-----
30.....									2.2	2.2	1.9	-----
31.....									-----	2.2	-----	-----
Means.									2.5	2.5	2.0	1.8

## DESCRIPTION OF RIVER GAGES, ETC.

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## MISSISSIPPI RIVER SYSTEM—ARKANSAS RIVER, WEBBERS FALLS, IND. T.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	2.3	2.0	2.2	2.5	5.6	9.9	3.6	3.3	3.3	12.0	7.9	4.2
2.....	2.1	2.0	2.3	2.5	5.5	9.1	4.6	2.8	2.8	13.2	7.3	3.9
3.....	2.2	2.0	2.5	2.4	5.6	7.9	8.4	2.7	.....	13.3	8.3	4.2
4.....	2.3	2.0	2.7	2.4	4.9	7.3	10.8	2.6	.....	12.9	9.5	3.6
5.....	2.2	2.0	2.6	2.4	4.9	6.5	11.0	2.5	.....	12.7	10.3	3.5
6.....	2.4	2.0	2.8	2.5	6.9	5.7	8.5	2.4	.....	12.2	11.1	3.4
7.....	3.0	1.9	3.8	2.5	6.9	5.0	5.5	2.4	.....	10.0	11.3	3.3
8.....	2.8	2.1	5.9	2.4	10.7	4.8	4.4	2.4	.....	7.9	9.5	3.2
9.....	2.8	2.2	8.3	2.4	10.2	4.5	3.9	2.4	.....	5.0	6.7	3.0
10.....	2.6	2.1	8.8	2.5	8.0	4.5	3.7	2.4	.....	4.3	5.1	3.0
11.....	2.5	2.1	7.9	2.7	6.8	4.5	3.4	2.4	.....	4.0	4.5	2.9
12.....	2.4	2.2	6.4	4.8	6.7	4.7	3.3	2.3	.....	3.9	4.2	2.8
13.....	2.4	2.2	5.7	5.8	6.2	5.2	3.0	2.3	.....	3.7	4.0	2.8
14.....	2.4	2.2	5.6	5.0	5.6	5.4	2.8	2.2	.....	3.5	3.8	2.8
15.....	2.3	2.3	5.5	4.4	5.1	5.6	2.8	2.3	.....	3.3	3.7	2.7
16.....	2.3	2.3	5.6	3.9	4.8	5.2	3.4	2.3	.....	3.0	3.5	2.6
17.....	2.3	1.6	5.2	4.5	4.6	5.0	2.8	2.3	.....	2.8	3.3	2.6
18.....	2.3	1.9	4.5	4.0	4.5	5.1	2.8	2.3	.....	2.7	3.2	2.6
19.....	2.2	1.9	4.0	4.5	4.6	4.9	10.2	2.3	.....	2.6	5.3	2.6
20.....	2.2	2.0	3.7	5.7	6.4	5.2	7.0	2.3	.....	2.4	7.9	3.9
21.....	2.2	2.3	3.5	7.4	10.1	5.5	5.3	2.3	.....	2.4	7.4	3.7
22.....	2.2	2.3	3.4	6.4	11.6	4.8	4.9	2.3	.....	2.9	5.9	3.0
23.....	2.2	2.3	3.3	5.3	10.8	4.7	4.2	2.3	3.4	2.7	5.8	2.7
24.....	2.1	2.1	3.2	4.8	9.1	4.5	4.0	2.3	3.8	2.5	6.0	2.6
25.....	2.1	2.1	3.0	5.3	7.4	4.3	4.0	2.3	3.0	2.4	6.4	2.5
26.....	2.1	2.3	2.9	4.9	6.4	3.9	5.0	2.4	3.4	2.7	6.3	2.4
27.....	2.1	2.2	2.8	5.1	6.0	3.8	4.5	2.4	3.0	2.6	6.0	2.4
28.....	2.1	2.2	2.8	7.3	6.1	3.7	4.4	2.3	7.7	2.4	5.3	2.3
29.....	2.1	.....	2.7	7.4	7.5	3.7	3.7	2.3	8.2	3.0	4.7	2.3
30.....	2.1	.....	2.6	6.2	8.2	3.7	3.7	3.2	9.2	3.3	4.4	2.2
31.....	2.0	.....	2.5	.....	7.8	.....	3.5	3.6	.....	4.3	.....	2.2
Means.	2.3	2.1	4.2	4.3	7.0	5.3	4.9	2.5	.....	5.4	6.3	3.0
<b>1901</b>												
1.....	2.2	2.0	2.6	8.0	4.3	2.7	1.9	1.6	1.5	1.6	1.5	1.5
2.....	2.2	2.0	2.5	7.2	4.3	2.5	1.8	1.6	1.5	1.6	1.5	1.5
3.....	2.1	2.0	2.4	5.9	5.8	2.4	1.8	1.6	1.5	1.6	1.5	1.5
4.....	2.1	2.3	2.4	8.1	5.5	2.3	1.7	1.6	1.6	1.5	1.5	1.5
5.....	2.1	2.4	2.3	8.2	4.8	2.3	1.7	2.4	1.5	1.7	1.5	1.5
6.....	2.1	3.5	2.3	6.8	4.2	2.1	1.6	3.2	1.5	1.7	1.5	1.5
7.....	2.1	3.5	2.2	5.7	4.1	2.1	1.6	2.7	1.5	1.7	1.5	1.5
8.....	2.1	4.1	2.1	5.6	4.8	2.2	1.6	2.3	1.5	1.7	1.6	1.7
9.....	1.9	3.6	2.1	5.6	5.0	2.4	1.7	2.2	1.5	1.7	1.8	1.6
10.....	1.9	3.2	2.6	5.2	4.2	4.4	1.7	1.9	1.5	1.6	1.7	1.6
11.....	1.9	3.0	3.0	6.8	3.8	2.4	1.7	1.8	1.5	1.6	1.6	1.6
12.....	2.0	2.8	4.1	8.4	3.4	2.9	1.7	1.7	1.5	1.5	1.5	1.6
13.....	3.8	2.7	7.4	10.1	3.2	4.7	1.6	1.8	1.5	1.5	1.5	1.7
14.....	4.0	2.7	8.8	10.1	3.0	3.6	1.6	1.7	1.5	1.5	1.5	2.5
15.....	3.5	2.7	7.0	10.2	3.3	2.9	1.6	1.7	1.5	1.5	1.5	Frozen.
16.....	2.9	2.7	5.2	10.6	3.0	2.5	1.6	1.6	1.5	1.5	1.5	.....
17.....	2.6	2.6	4.5	12.2	2.9	2.5	1.6	1.6	1.5	1.5	1.5	.....
18.....	2.5	2.5	4.0	12.5	3.3	2.9	1.6	1.6	1.5	1.5	1.5	.....
19.....	2.4	2.5	3.8	11.9	5.0	2.8	1.6	1.6	1.5	1.5	1.5	.....
20.....	2.4	2.4	3.5	10.9	8.9	2.6	1.6	1.6	1.5	1.5	1.5	.....
21.....	2.6	2.9	3.3	10.3	9.6	2.4	1.6	1.6	2.7	2.2	1.5	1.6
22.....	2.6	3.3	3.9	9.7	7.7	2.4	1.6	1.6	1.7	2.0	1.5	1.6
23.....	2.5	3.2	3.9	8.7	5.8	2.4	1.6	1.6	1.9	1.9	1.5	1.5
24.....	2.4	3.1	3.7	7.1	4.7	2.5	1.6	1.6	1.7	1.7	1.5	2.0
25.....	2.3	3.3	3.6	6.2	4.2	2.4	1.6	1.6	1.6	1.7	1.5	1.9
26.....	2.2	3.2	3.4	5.9	3.8	2.2	1.6	1.6	1.6	1.7	1.5	1.7
27.....	2.2	3.0	3.3	5.5	3.6	2.0	1.6	1.5	1.6	1.6	1.5	1.6
28.....	2.2	2.8	3.4	5.1	3.4	2.0	1.6	1.5	1.6	1.6	1.5	1.5
29.....	2.0	.....	3.3	4.8	3.3	2.0	1.6	1.6	1.6	1.6	1.5	1.5
30.....	2.0	.....	3.0	4.7	2.9	1.9	1.6	1.5	1.6	1.5	1.5	1.5
31.....	2.0	.....	2.9	.....	2.8	.....	1.6	1.5	.....	1.5	.....	1.5
Means.	2.4	2.9	3.6	8.3	4.5	2.6	1.6	1.8	1.6	1.6	1.5	1.6

## MISSISSIPPI RIVER SYSTEM—ARKANSAS RIVER, WEBBERS FALLS, IND. T.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....			4.0	3.7	3.7	15.5	6.9	4.3	8.2	6.8	1.9	5.2
2.....			3.7	3.4	3.6	15.1	10.5	4.6	8.1	5.6	1.8	4.9
3.....			3.8	3.3	3.5	12.7	10.0	4.2	8.4	5.6	1.9	5.5
4.....			3.5	2.9	3.7	10.0	8.4	3.6	9.5	5.3	2.5	5.5
5.....			3.1	2.8	3.5	8.8	7.1	3.3	9.3	4.8	2.5	6.8
6.....			2.8	3.4	3.3	9.4	6.6	3.0	8.7	6.3	2.3	7.7
7.....			2.5	3.6	6.0	13.4	5.9	2.7	8.2	6.8	2.3	6.9
8.....			2.3	3.8	10.4	14.1	5.8	2.2	7.7	8.0	2.7	6.3
9.....			2.2	3.6	8.0	14.7	5.5	2.1	6.7	8.8	3.4	5.6
10.....			2.1	2.9	7.0	14.5	5.1	4.4	6.2	8.4	3.7	5.1
11.....			2.4	2.7	6.7	15.2	5.1	3.0	5.7	7.6	3.4	4.8
12.....			10.1	2.6	5.5	14.1	5.6	2.7	4.8	7.3	3.1	5.5
13.....			12.0	3.5	4.6	13.1	6.3	3.7	4.4	6.6	2.7	4.4
14.....			14.7	3.9	4.0	12.8	7.3	3.3	3.7	5.2	3.4	4.4
15.....			12.1	3.8	3.7	12.6	5.9	2.9	3.0	4.3	3.1	11.3
16.....			8.6	3.6	3.8	11.5	5.2	2.8	2.7	3.9	8.0	12.0
17.....			6.2	3.5	4.1	10.0	5.1	2.5	2.5	3.6	10.5	13.1
18.....			5.2	3.5	4.7	9.3	4.8	2.2	2.3	3.6	9.6	12.1
19.....			4.6	3.4	4.3	8.0	4.4	2.0	2.2	3.3	7.7	10.4
20.....			4.1	3.4	4.0	6.5	4.0	1.7	1.9	3.0	6.0	10.4
21.....			3.9	3.2	4.4	6.2	3.7	1.6	2.2	2.8	5.1	7.6
22.....			3.6	2.7	5.3	9.5	3.5	1.5	3.5	2.7	5.4	7.3
23.....			3.5	2.5	13.5	11.4	3.7	1.5	3.2	3.5	5.0	7.3
24.....			3.6	2.5	18.0	10.0	4.0	1.5	3.0	2.4	5.0	8.0
25.....			3.4	2.4	18.1	9.7	5.0	1.5	8.3	2.3	8.8	7.9
26.....			3.4	2.3	17.0	9.6	6.1	4.9	10.2	2.3	8.5	6.9
27.....		1.8	3.2	2.2	17.3	9.3	5.4	5.8	10.7	2.1	9.6	6.4
28.....		4.0	5.5	3.8	16.6	8.4	4.4	6.9	10.5	2.0	8.5	5.6
29.....			4.9	4.0	16.0	8.6	4.3	7.5	9.5	2.0	7.0	5.2
30.....			4.7	3.9	15.5	6.2	3.4	7.5	8.5	1.9	5.8	4.9
31.....			4.8		15.0		3.5	7.4		1.9		4.6
<b>Means.</b>			5.0	3.2	8.2	11.0	5.6	3.5	6.1	4.5	5.0	7.0
<b>1903</b>												
1.....	4.4	3.3	12.4	6.2	3.1	20.3	7.1	3.4	2.8	2.4	2.9	3.0
2.....	4.4	3.4	13.1	5.8	3.0	20.2	6.6	3.3	3.1	2.4	2.9	3.0
3.....	4.8	3.6	12.2	5.6	3.0	20.3	6.1	3.2	3.0	2.7	2.8	2.9
4.....	4.9	3.5	11.9	5.2	3.2	20.0	7.0	3.1	2.8	2.7	3.7	2.8
5.....	5.0	3.6	11.0	5.2	3.1	18.4	9.1	4.4	2.7	2.9	8.0	2.8
6.....	5.0	9.5	9.5	5.6	3.0	17.6	8.1	4.5	2.6	3.1	10.0	2.8
7.....	4.8	9.7	9.6	8.7	3.9	17.0	7.6	4.5	2.4	2.7	10.0	2.8
8.....	4.6	7.4	11.7	10.1	3.1	16.1	8.5	4.3	2.4	4.4	9.6	2.7
9.....	4.5	5.7	15.5	8.8	7.2	14.3	8.4	4.1	2.4	3.6	8.2	2.7
10.....	4.4	5.0	18.3	6.8	8.4	12.7	7.1	4.6	2.3	3.3	6.8	2.6
11.....	4.2	5.3	18.8	6.2	7.6	11.8	6.9	7.4	2.2	5.9	6.1	2.6
12.....	4.0	6.0	17.2	7.7	7.4	11.3	6.4	7.7	2.2	6.1	5.3	2.6
13.....	3.7	5.1	15.1	10.6	8.6	11.7	5.9	7.7	3.8	5.7	4.7	2.6
14.....	3.5	4.9	13.2	8.7	12.6	11.3	5.7	7.5	4.9	4.4	4.2	2.6
15.....	3.4	6.2	12.6	7.4	14.6	10.9	5.1	6.7	5.7	3.5	3.9	2.5
16.....	3.6	8.7	12.0	6.9	14.4	8.8	5.7	5.8	5.6	3.2	4.1	2.5
17.....	3.7	6.2	10.3	7.2	14.3	7.5	6.0	6.2	4.9	3.0	4.0	2.5
18.....	3.5	6.0	8.3	6.5	13.3	7.0	5.4	7.0	4.0	4.1	3.7	2.5
19.....	3.4	5.4	7.5	5.8	12.5	6.7	5.0	6.7	3.7	5.0	3.6	2.4
20.....	3.4	4.9	9.5	5.0	13.3	6.5	4.6	7.0	3.3	4.9	3.5	2.3
21.....	3.4	4.9	10.2	4.7	15.3	6.8	4.4	7.8	3.2	4.5	3.4	2.3
22.....	3.4	5.5	12.8	4.5	18.6	7.3	4.9	7.4	3.0	3.8	3.3	2.3
23.....	3.4	5.8	11.9	4.4	21.2	6.9	4.8	6.8	2.9	3.3	3.2	2.3
24.....	3.3	6.0	10.9	4.1	21.0	6.7	4.4	5.8	2.8	3.0	3.2	2.6
25.....	3.3	6.6	9.5	3.9	22.5	5.8	4.2	4.9	2.6	2.8	3.2	2.6
26.....	3.3	7.4	8.2	3.7	24.1	5.6	3.9	4.3	2.6	2.8	3.2	2.6
27.....	3.4	9.2	7.6	3.5	22.6	7.3	3.8	3.6	2.5	2.6	3.0	2.5
28.....	3.4	9.8	7.4	3.5	20.1	8.2	3.6	3.3	2.4	2.5	3.0	2.5
29.....	3.4		7.1	3.4	18.8	7.9	3.8	3.4	2.4	2.5	3.0	2.5
30.....	3.3		6.6	3.4	20.7	7.5	3.7	3.4	2.4	2.5	3.0	2.7
31.....	3.3		6.4		20.9		3.5	3.1		2.5		2.7
<b>Means.</b>	3.9	6.0	11.2	6.0	12.4	11.3	5.7	5.3	3.1	3.5	4.6	2.6

## MISSISSIPPI RIVER SYSTEM—ARKANSAS RIVER, WEBBERS FALLS, IND. T.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	2.6	3.9	2.9	5.7	12.6	10.4	15.4	7.2	5.8	3.9	3.8	3.0
2.....	2.6	3.8	2.9	5.3	11.8	10.5	15.3	7.0	5.4	3.9	3.8	2.9
3.....	2.5	3.8	2.9	4.3	10.4	14.5	15.5	7.4	5.2	3.9	3.7	2.9
4.....	2.4	3.7	2.8	3.8	7.8	24.0	16.4	10.0	5.1	3.8	3.4	2.9
5.....	2.2	3.6	2.9	3.6	5.5	28.2	17.0	9.0	5.0	6.6	3.4	2.9
6.....	2.2	3.6	2.9	3.6	5.3	28.8	17.7	8.6	4.7	5.8	3.2	2.9
7.....	2.2	3.7	2.9	3.4	5.9	27.6	19.1	7.3	4.6	3.8	3.2	2.9
8.....	2.2	3.4	2.9	3.6	6.7	25.0	21.0	7.0	4.6	3.8	3.2	2.9
9.....	2.1	3.2	2.9	3.4	8.4	24.4	22.3	6.6	4.6	3.8	3.0	2.9
10.....	2.1	3.2	2.9	3.3	10.0	23.0	22.7	6.3	4.5	3.8	3.0	2.9
11.....	2.1	3.2	2.9	3.3	10.5	21.7	24.5	6.2	4.5	4.8	3.0	2.9
12.....	2.0	3.2	2.9	3.8	10.3	21.8	25.0	6.2	4.5	4.8	3.0	2.9
13.....	2.0	3.4	2.9	3.8	10.0	21.4	25.1	6.2	4.4	4.8	3.0	2.9
14.....	2.0	3.4	2.9	3.8	9.0	21.1	24.5	5.7	4.2	4.6	3.0	2.9
15.....	2.0	3.3	2.9	3.7	8.0	19.9	23.7	5.3	4.1	4.4	3.0	2.9
16.....	2.0	3.3	2.9	3.6	7.0	18.6	22.9	5.2	4.1	4.2	3.0	2.9
17.....	1.9	3.3	3.0	3.5	6.4	17.4	21.5	5.2	4.0	4.1	3.0	2.9
18.....	1.9	3.3	3.0	3.5	5.9	16.3	20.3	5.1	4.0	4.1	3.0	2.9
19.....	1.9	3.3	2.9	3.4	6.1	15.2	18.5	5.1	4.0	4.1	3.0	2.8
20.....	1.9	3.3	2.9	3.3	9.0	14.3	16.7	5.1	4.1	4.1	3.0	2.8
21.....	2.6	3.3	2.9	3.3	10.1	13.9	14.6	10.0	3.9	4.1	3.0	2.8
22.....	9.8	3.3	2.9	3.2	10.0	14.9	12.8	10.0	4.0	4.0	3.0	2.8
23.....	9.2	3.3	2.9	3.1	9.0	14.9	11.6	8.9	4.0	4.0	3.0	2.8
24.....	9.5	2.9	2.7	3.1	8.1	14.0	10.5	9.4	4.1	4.0	3.0	2.8
25.....	7.8	2.9	2.7	3.1	7.2	13.6	9.7	12.0	4.2	4.0	3.0	2.8
26.....	6.7	3.0	3.3	6.8	5.8	12.5	8.5	11.3	6.8	4.0	3.0	2.7
27.....	5.6	2.9	3.6	12.0	5.6	11.8	8.3	10.0	6.4	3.9	3.0	2.7
28.....	4.6	2.9	3.6	12.3	5.8	15.1	8.6	8.5	6.3	3.9	3.0	2.7
29.....	4.3	2.9	3.6	12.0	7.1	16.0	8.7	7.1	6.2	3.9	3.0	2.7
30.....	4.0	-----	4.7	12.1	10.2	16.0	8.4	7.0	4.0	3.8	3.0	2.6
31.....	4.0	-----	5.8	-----	9.9	-----	7.8	6.1	-----	3.8	-----	2.6
Means.	3.6	3.3	3.2	4.9	8.2	18.2	16.6	7.5	4.7	4.2	3.1	2.8

## MISSISSIPPI RIVER SYSTEM—ARKANSAS RIVER, FORT SMITH, ARK.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	3.3	2.6	2.8	3.3	8.8	9.7	5.4	4.5	3.8	10.2	8.3	4.9
2.....	3.1	2.4	3.9	3.2	7.9	10.6	5.1	4.2	4.2	13.1	11.6	4.6
3.....	3.4	2.3	4.1	3.0	7.2	10.6	4.8	3.8	3.7	13.8	11.4	4.6
4.....	3.2	2.3	4.3	3.0	7.0	9.6	8.0	3.5	3.4	13.4	11.0	4.9
5.....	3.1	2.1	4.6	2.9	7.0	9.0	11.2	4.0	2.8	12.9	10.7	4.7
6.....	3.1	2.5	5.1	2.8	8.0	8.3	11.1	4.2	2.6	12.7	11.4	4.7
7.....	3.8	2.3	5.2	2.8	8.4	7.8	8.7	3.6	2.5	12.1	11.7	4.6
8.....	4.2	7.8	5.0	3.1	9.5	7.2	6.6	3.2	2.4	9.5	11.3	4.3
9.....	4.8	9.0	6.2	3.3	11.8	6.8	5.5	2.9	2.3	8.3	9.9	4.2
10.....	5.6	8.9	9.3	3.7	11.1	6.6	4.9	2.7	2.1	6.3	7.3	4.0
11.....	5.6	9.4	9.2	3.8	9.8	6.3	4.5	2.3	2.0	5.4	6.3	3.9
12.....	5.3	8.5	8.8	6.7	8.5	5.9	4.2	2.6	1.8	4.9	5.7	3.9
13.....	5.9	7.4	7.6	6.3	8.0	5.7	4.0	2.5	2.0	4.6	5.2	3.8
14.....	5.3	5.6	6.8	7.4	7.5	6.5	3.9	2.5	1.9	4.3	4.8	3.7
15.....	5.0	4.5	6.7	6.8	7.1	6.3	3.7	2.3	1.8	4.0	4.5	3.6
16.....	4.4	4.0	7.2	5.7	6.6	7.5	3.6	2.5	1.8	3.8	4.2	3.5
17.....	4.0	3.7	7.2	5.5	6.5	6.7	4.2	3.0	1.8	3.6	4.0	3.4
18.....	5.6	3.3	7.1	6.2	6.0	6.0	4.1	2.9	2.7	3.4	3.9	3.4
19.....	5.1	3.1	7.0	5.9	6.2	6.8	3.9	3.4	3.1	3.2	4.9	3.4
20.....	4.8	3.0	6.3	6.2	6.3	6.5	9.9	2.9	3.1	3.1	7.9	5.1
21.....	4.4	3.1	5.6	6.8	6.2	6.5	8.1	2.5	2.8	3.2	10.5	6.4
22.....	4.1	3.5	5.3	7.6	10.0	6.0	7.3	2.0	2.7	2.6	9.6	6.4
23.....	3.8	3.6	4.8	8.3	12.8	6.7	6.3	1.6	3.0	3.4	8.6	5.1
24.....	4.0	3.7	4.5	6.7	11.5	6.5	5.5	1.6	4.2	4.2	7.9	4.6
25.....	3.8	3.5	4.3	6.7	9.7	6.1	5.3	2.0	3.6	3.5	8.5	4.1
26.....	3.8	3.2	4.1	7.1	8.4	5.8	5.2	2.2	3.7	3.5	8.9	3.8
27.....	3.6	3.2	3.9	7.2	8.4	5.2	6.2	2.3	4.4	3.3	8.8	3.4
28.....	3.3	3.0	3.8	6.9	8.3	5.0	5.8	2.3	4.2	3.3	7.8	3.4
29.....	3.2	-----	3.7	8.8	8.3	4.8	5.5	2.6	8.1	3.5	6.9	3.1
30.....	3.0	-----	3.6	9.0	9.9	5.0	5.3	2.4	8.8	3.8	6.3	3.1
31.....	2.8	-----	3.5	-----	10.5	-----	4.8	3.5	-----	5.0	-----	3.0
Means.	4.1	4.3	5.5	5.6	8.5	6.9	5.9	2.9	3.2	6.2	8.0	4.2

## MISSISSIPPI RIVER SYSTEM—ARKANSAS RIVER, FORT SMITH, ARK.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	3.0	2.5	3.4	4.1	5.9	5.9	1.8	3.6	0.8	0.5	0.3	0.9
2.....	3.0	2.4	3.2	8.4	5.6	7.1	1.8	2.8	0.8	0.5	0.3	0.9
3.....	3.0	2.7	3.0	8.4	5.5	5.6	1.8	2.5	0.8	0.7	0.4	0.9
4.....	2.8	2.7	2.9	7.4	6.5	4.9	1.8	1.8	0.7	0.6	0.9	0.9
5.....	2.8	2.7	2.7	8.8	6.4	5.2	1.8	1.4	1.0	0.8	0.9	0.9
6.....	2.6	3.1	2.7	8.8	7.3	4.5	1.7	1.2	1.4	0.9	0.9	0.9
7.....	2.6	4.1	2.6	7.7	7.3	4.0	1.7	3.6	1.1	2.0	0.9	0.8
8.....	2.6	4.2	2.5	6.8	6.3	4.2	1.6	3.5	0.9	1.7	0.9	0.8
9.....	2.6	4.9	2.6	6.6	6.2	5.5	1.5	3.2	0.8	1.4	0.9	0.8
10.....	2.7	4.5	5.3	6.7	6.2	5.2	1.3	2.8	0.7	1.2	1.1	0.9
11.....	3.1	4.0	7.6	7.2	5.5	6.3	1.2	2.3	0.6	1.1	1.1	0.9
12.....	3.1	3.8	8.8	10.0	5.0	5.3	1.1	2.1	0.6	1.0	1.1	0.9
13.....	3.1	3.6	9.5	11.9	4.6	4.4	1.1	2.0	2.3	1.0	1.1	1.5
14.....	4.2	3.5	11.3	13.0	4.4	5.9	1.1	1.9	1.9	0.9	1.2	1.7
15.....	5.1	3.5	11.1	10.5	4.2	5.1	1.1	2.0	1.5	1.3	1.5	1.9
16.....	4.5	3.5	8.5	11.1	4.4	4.1	1.0	2.0	1.9	1.3	1.3	2.6
17.....	4.2	3.5	7.0	11.6	4.9	3.4	1.0	1.9	2.0	1.4	1.2	2.4
18.....	3.6	3.4	6.1	14.3	5.5	3.1	1.0	2.0	2.5	1.4	1.1	2.1
19.....	3.4	3.2	5.5	14.7	9.1	3.9	1.0	1.8	2.0	1.1	1.1	2.0
20.....	3.3	3.1	5.1	13.5	11.3	3.8	0.9	2.1	1.4	1.0	1.0	2.9
21.....	3.0	3.1	4.7	12.3	12.5	3.1	0.9	2.4	1.5	0.9	1.0	2.6
22.....	3.0	3.2	4.4	11.2	12.4	2.8	0.9	1.9	2.4	1.9	1.0	2.4
23.....	3.0	3.7	4.8	10.4	9.8	2.7	0.9	1.7	2.2	2.1	1.0	1.6
24.....	2.9	3.7	6.3	9.3	7.8	2.6	0.9	1.8	1.7	1.8	1.0	1.6
25.....	2.9	3.7	6.0	9.0	7.2	2.6	0.9	1.8	1.3	1.5	0.9	2.4
26.....	2.8	3.7	5.5	7.5	6.9	2.5	0.8	1.7	0.9	1.0	0.9	2.3
27.....	2.7	3.7	5.1	7.0	6.0	2.2	0.7	1.4	0.8	1.2	1.1	2.9
28.....	2.7	3.6	4.8	6.7	5.5	2.0	0.6	1.2	0.7	0.5	1.0	2.4
29.....	2.7		4.7	6.4	5.1	1.9	0.6	1.0	0.6	0.4	1.0	1.6
30.....	2.6		4.6	6.1	4.7	1.9	0.6	0.9	0.5	0.3	1.0	1.6
31.....	2.5		4.3		4.5		0.6	0.9		0.3		1.3
<b>Means.</b>	<b>3.1</b>	<b>3.5</b>	<b>5.4</b>	<b>9.2</b>	<b>6.6</b>	<b>4.1</b>	<b>1.2</b>	<b>2.0</b>	<b>1.3</b>	<b>1.1</b>	<b>1.0</b>	<b>1.6</b>
<b>1902</b>												
1.....	1.3	0.0	4.1	6.5	4.6	18.0	7.9	4.6	7.6	9.3	2.9	7.6
2.....	1.0	0.0	4.7	5.5	4.3	17.5	10.3	5.3	8.5	7.9	3.0	6.9
3.....	1.0	0.0	4.2	5.0	4.0	15.0	11.8	5.5	8.3	6.9	3.0	7.4
4.....	1.0	0.0	4.2	4.4	3.8	13.4	10.4	5.2	8.6	6.5	3.0	8.5
5.....	1.0	0.0	4.0	4.0	4.1	10.9	8.8	4.7	9.6	6.6	3.3	9.0
6.....	0.9	0.0	3.6	3.9	3.9	10.0	7.8	4.3	9.5	6.3	3.5	9.3
7.....	0.9	-0.1	3.3	4.4	3.7	10.8	8.0	4.1	8.8	6.9	3.4	9.5
8.....	0.9	-0.1	2.9	5.9	6.3	14.0	6.8	4.0	8.2	7.5	3.4	9.0
9.....	0.9	-0.1	2.7	6.6	10.7	14.7	6.6	3.8	7.9	8.2	3.3	8.1
10.....	0.9	-0.1	2.5	6.1	6.4	15.0	6.3	3.9	7.3	8.9	4.0	7.2
11.....	0.9	-0.2	2.4	5.2	6.3	15.1	6.0	5.2	6.9	8.7	4.4	6.8
12.....	0.9	-0.1	3.6	5.2	6.3	15.5	5.8	4.6	6.5	7.9	4.1	6.1
13.....	0.9	-0.1	12.2	6.6	6.3	14.1	6.1	6.5	6.1	7.7	3.8	5.8
14.....	0.9	-0.1	15.1	9.6	5.8	13.3	6.6	6.7	5.2	7.2	4.0	5.7
15.....	0.9	-0.1	15.0	10.7	5.1	12.8	7.5	5.9	4.8	6.2	4.5	8.4
16.....	0.8	-0.6	12.2	10.7	4.6	12.5	6.6	5.2	4.2	5.2	5.4	15.6
17.....	0.8	0.0	9.3	9.9	4.7	11.4	6.0	4.7	3.8	4.8	5.9	16.1
18.....	0.8	0.0	7.6	8.0	5.1	10.0	5.9	4.3	3.7	4.5	11.7	16.3
19.....	0.9	0.0	6.8	6.8	5.6	9.2	5.8	4.2	3.5	4.2	10.6	14.5
20.....	0.9	0.2	5.8	6.4	5.4	8.2	5.7	3.7	3.3	4.2	7.7	12.0
21.....	0.8	0.3	5.6	5.7	5.9	7.4	5.2	3.4	3.2	4.0	7.2	10.2
22.....	0.8	0.6	5.2	5.0	5.7	7.2	4.8	3.3	3.2	3.9	7.4	9.1
23.....	0.8	0.8	5.1	4.6	6.6	10.1	4.5	3.1	3.5	3.7	11.1	8.4
24.....	0.8	0.8	5.0	4.1	16.2	11.1	4.5	2.9	4.0	3.6	11.2	8.1
25.....	0.7	0.9	5.2	3.9	19.0	9.8	5.0	2.8	5.0	3.5	12.1	8.4
26.....	0.7	1.0	5.5	3.6	18.5	9.7	5.8	2.8	8.6	4.1	14.2	8.2
27.....	Frozen	1.3	5.6	3.5	17.5	9.7	6.6	5.0	10.6	3.7	13.9	7.4
28.....		1.3	6.4	3.4	17.7	9.5	5.2	6.2	11.1	3.3	13.9	6.6
29.....			7.7	4.4	17.0	7.4	5.4	7.2	10.7	3.3	12.3	6.2
30.....	-0.2		8.3	4.7	16.5	6.9	5.2	7.7	9.8	3.4	9.8	5.9
31.....	0.1		7.3		17.2		4.6	7.8		3.0		5.6
<b>Means.</b>	<b>0.8</b>	<b>0.2</b>	<b>6.2</b>	<b>6.1</b>	<b>8.5</b>	<b>11.7</b>	<b>6.6</b>	<b>4.8</b>	<b>6.7</b>	<b>5.6</b>	<b>6.9</b>	<b>8.8</b>



## MISSISSIPPI RIVER SYSTEM—ARKANSAS RIVER, FORT SMITH, ARK.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	5.4	3.9	14.5	6.9	4.1	24.0	7.7	2.9	3.4	2.1	2.3	2.5
2.....	5.2	3.9	15.0	6.6	4.0	23.7	7.1	2.9	3.2	2.1	2.3	2.5
3.....	5.6	3.5	14.3	6.4	3.9	23.3	6.7	4.7	3.1	2.4	3.2	2.5
4.....	6.3	4.0	13.2	6.1	3.9	22.4	6.7	3.5	3.3	5.3	4.8	2.4
5.....	6.7	6.1	14.1	5.9	3.9	21.2	12.2	2.8	3.0	5.8	5.3	2.3
6.....	6.8	6.5	12.8	5.6	3.9	19.5	13.9	3.4	2.8	4.4	8.5	2.3
7.....	6.3	9.9	15.3	5.8	3.9	18.6	12.1	3.8	2.7	5.0	10.3	2.3
8.....	6.0	9.7	13.7	8.7	5.5	17.9	10.9	3.8	2.5	5.3	9.8	2.3
9.....	5.6	7.8	15.1	9.7	7.0	17.0	10.9	3.7	2.3	6.0	8.8	2.3
10.....	5.3	6.3	19.4	8.8	9.5	15.3	9.8	3.6	2.3	4.6	7.8	2.3
11.....	5.1	7.4	21.6	7.1	10.2	13.6	8.2	4.0	2.2	4.0	7.2	2.3
12.....	5.0	10.3	21.0	6.6	9.9	13.0	7.4	7.4	2.1	5.5	6.3	2.3
13.....	4.6	11.3	19.3	8.0	10.8	12.6	6.7	8.0	2.0	6.5	5.5	2.3
14.....	4.4	10.2	17.1	10.3	12.2	12.3	6.1	8.1	2.1	6.0	4.8	2.3
15.....	4.1	9.6	14.8	9.0	14.9	11.8	5.6	8.5	4.5	4.7	4.5	2.3
16.....	4.0	15.2	13.6	7.8	15.5	10.9	5.2	7.9	5.6	4.0	4.0	2.3
17.....	4.0	14.4	12.5	7.4	15.3	8.5	5.4	6.7	5.5	3.5	4.0	2.3
18.....	4.1	13.3	10.2	7.5	14.6	8.4	5.9	6.9	5.2	3.1	4.0	2.3
19.....	4.0	12.8	8.7	7.0	14.1	7.9	5.2	8.3	4.3	3.7	3.8	2.3
20.....	4.0	11.2	9.9	6.3	14.7	6.9	4.7	7.7	3.8	4.8	3.6	2.3
21.....	3.8	9.4	13.3	5.8	16.8	6.3	4.3	7.6	3.6	5.0	3.4	2.3
22.....	3.8	8.1	14.7	5.6	18.3	6.3	4.0	8.1	3.2	4.5	3.2	2.3
23.....	3.8	6.4	15.5	5.3	21.0	6.7	4.4	7.6	3.1	3.5	3.0	2.3
24.....	3.8	8.6	13.7	5.1	21.6	6.5	4.0	7.1	2.9	3.3	3.0	2.3
25.....	3.7	8.3	11.7	5.0	21.7	6.4	3.7	6.1	2.7	2.9	2.8	2.5
26.....	3.7	8.3	10.1	4.8	<sup>a</sup> 24.4	6.9	3.5	5.1	2.6	2.8	2.8	3.5
27.....	3.5	9.8	9.0	4.6	24.5	7.2	3.3	4.3	2.3	2.5	2.7	3.3
28.....	3.9	13.0	8.4	4.4	22.7	7.9	3.1	3.7	2.2	2.4	2.7	3.3
29.....	3.9	.....	8.0	4.3	20.5	8.7	3.0	3.6	2.1	2.3	2.7	3.3
30.....	4.0	.....	7.3	4.1	24.1	8.3	3.1	3.5	2.1	2.2	2.7	3.2
31.....	4.1	.....	7.2	.....	24.5	.....	2.9	4.2	.....	2.2	.....	3.3
Means.	4.7	8.9	13.4	6.6	13.6	12.7	6.4	5.5	3.1	3.9	4.7	2.5
<b>1904</b>												
1.....	3.5	4.4	2.3	7.2	12.0	12.5	16.4	7.5	6.6	4.4	3.0	2.3
2.....	3.2	4.0	2.3	6.8	12.9	12.4	15.9	7.4	6.2	4.2	3.0	2.3
3.....	3.1	4.0	2.3	5.7	11.7	12.7	15.6	7.6	6.0	4.0	2.9	2.3
4.....	2.9	3.8	2.2	5.2	10.6	21.5	15.9	8.4	5.6	3.8	2.8	2.3
5.....	2.8	3.7	2.0	4.7	8.0	29.8	16.8	10.3	5.3	3.3	2.8	2.3
6.....	2.6	3.6	2.0	4.8	6.0	32.0	17.3	10.0	5.2	14.0	2.8	2.3
7.....	2.4	3.6	2.0	4.6	6.0	<sup>b</sup> 33.3	17.9	9.4	5.1	8.8	2.7	2.2
8.....	2.5	3.7	2.0	5.2	7.5	33.0	19.5	7.9	4.8	6.7	2.6	2.2
9.....	2.3	3.7	2.0	6.6	8.5	31.5	21.5	7.3	4.7	6.0	2.6	2.1
10.....	2.3	3.7	2.0	6.7	9.8	30.4	23.0	8.1	4.6	5.5	2.6	2.1
11.....	2.3	3.6	2.0	5.8	11.0	28.5	24.0	7.7	4.5	5.0	2.5	2.1
12.....	2.3	3.2	2.0	5.1	10.8	26.8	25.4	7.0	4.4	4.8	2.5	2.1
13.....	2.2	3.0	1.8	4.7	10.8	26.0	25.0	6.9	4.4	5.3	2.4	2.1
14.....	2.2	2.9	2.3	4.7	10.0	24.8	25.0	6.8	4.8	5.5	2.4	2.1
15.....	2.2	2.9	2.0	4.6	9.0	23.3	24.6	6.2	4.6	5.3	2.4	2.1
16.....	2.1	2.9	1.9	4.6	7.6	21.4	23.8	6.0	4.4	4.9	2.3	2.1
17.....	2.0	2.8	2.0	5.0	7.0	19.8	23.0	5.6	4.2	4.6	2.3	2.1
18.....	2.0	2.8	2.9	4.6	6.5	18.4	21.8	5.6	4.2	4.7	2.3	2.1
19.....	1.9	2.8	2.4	4.1	6.0	17.0	20.0	6.3	4.1	4.7	2.3	2.3
20.....	1.9	3.0	2.6	3.8	6.0	15.8	18.0	6.1	4.6	4.9	2.3	2.2
21.....	1.9	4.0	2.4	3.6	8.9	14.8	16.4	6.2	4.9	4.5	2.3	2.1
22.....	7.0	3.2	2.4	3.8	10.0	14.2	14.2	9.5	6.0	4.1	2.3	2.1
23.....	11.5	3.2	2.4	4.1	10.0	15.2	13.0	9.6	5.0	3.9	2.3	2.1
24.....	12.5	3.5	2.3	4.4	9.0	14.9	11.8	8.7	4.5	3.8	2.3	2.1
25.....	12.0	3.3	4.4	4.4	8.0	14.2	9.6	9.5	4.3	3.6	2.3	2.1
26.....	10.3	2.9	10.0	4.7	7.2	13.7	9.0	11.6	4.2	3.6	2.3	2.1
27.....	8.6	2.8	12.0	8.5	6.0	14.0	8.2	10.8	6.4	3.5	2.3	2.1
28.....	7.2	2.6	10.7	12.5	5.5	15.0	8.1	9.4	6.6	3.6	2.3	2.4
29.....	6.3	2.4	11.0	12.8	6.0	16.6	8.2	8.1	5.5	3.5	2.3	2.4
30.....	5.5	.....	9.2	12.3	7.5	16.8	8.4	7.2	4.7	3.5	2.3	2.4
31.....	4.8	.....	7.6	.....	12.5	.....	7.9	7.0	.....	3.1	.....	2.3
Means.	4.4	3.3	3.8	5.9	8.7	20.7	16.9	7.9	5.0	4.9	2.5	2.2

<sup>a</sup> Maximum stage, 25.1.<sup>b</sup> 33.4 at 12 noon.

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSISSIPPI RIVER SYSTEM—ARKANSAS RIVER, DARDANELLE, ARK.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	3.8	2.6	6.0	3.1	9.3	9.7	4.4	4.2	1.4	7.2	10.5	7.0
2.....	3.2	2.4	5.0	2.9	9.1	9.9	4.7	4.0	1.8	8.5	10.8	6.0
3.....	3.0	2.3	5.0	2.8	8.3	10.5	4.9	3.8	2.8	12.0	13.0	5.5
4.....	3.0	2.3	4.8	2.6	7.4	10.8	4.5	3.6	3.0	13.2	12.9	5.0
5.....	2.9	2.2	4.8	2.5	7.0	10.0	5.5	3.0	3.0	13.8	11.0	4.5
6.....	2.8	2.2	5.4	2.0	6.6	9.2	10.0	2.6	2.5	13.0	10.8	4.2
7.....	2.8	2.1	6.6	2.0	6.5	8.8	11.8	2.8	2.1	12.7	11.0	4.0
8.....	2.8	3.6	7.0	2.0	8.0	8.5	10.8	3.0	1.7	12.0	11.5	4.0
9.....	3.0	11.5	6.5	2.3	8.9	7.5	7.0	2.6	1.5	11.4	11.3	4.0
10.....	3.7	10.4	6.5	2.4	10.6	6.7	6.5	2.4	1.3	8.8	10.0	4.0
11.....	4.5	9.6	9.0	2.6	11.2	6.5	4.5	1.8	1.2	7.6	8.7	3.8
12.....	4.8	9.7	9.5	2.7	9.8	6.5	4.0	1.6	1.2	5.0	8.0	3.5
13.....	4.8	9.6	9.0	3.8	8.5	6.1	3.6	1.4	1.1	4.5	6.0	3.4
14.....	5.0	8.8	7.8	5.3	7.8	5.9	3.0	1.2	1.0	3.8	4.8	3.2
15.....	5.2	7.1	7.0	6.0	7.3	6.0	3.0	1.2	0.9	3.5	4.2	3.0
16.....	4.9	5.6	6.7	6.8	6.7	6.1	3.5	1.2	0.9	3.2	4.1	2.9
17.....	4.6	5.0	6.7	7.5	6.1	6.5	3.3	1.2	0.8	3.0	3.8	2.8
18.....	6.0	4.5	7.0	8.7	5.6	6.6	3.2	1.1	0.8	2.8	3.6	2.8
19.....	6.8	3.9	7.5	7.8	5.5	6.9	3.6	1.6	0.8	2.6	4.6	2.8
20.....	6.4	3.3	7.6	7.0	5.5	6.8	3.5	1.6	1.0	2.4	9.8	4.5
21.....	5.8	3.3	6.8	6.8	5.4	6.2	5.0	1.9	1.8	2.5	8.8	4.5
22.....	5.0	3.5	5.9	6.5	5.6	6.0	8.0	1.8	2.8	3.7	10.5	6.0
23.....	4.8	3.4	5.4	7.3	9.3	6.5	7.0	1.6	2.8	3.8	10.5	6.8
24.....	4.2	3.3	5.0	8.9	11.6	6.0	6.4	1.5	2.9	3.5	11.0	6.5
25.....	4.0	3.3	4.8	9.2	11.0	5.9	5.6	1.0	2.8	3.0	10.0	6.0
26.....	3.8	3.5	4.6	8.7	9.8	5.9	4.8	1.6	3.0	3.1	9.0	5.5
27.....	3.4	3.2	4.2	8.9	8.7	5.4	4.6	3.2	2.8	2.8	9.0	4.5
28.....	3.2	5.0	4.1	8.2	8.7	4.8	4.3	4.2	2.7	2.5	9.1	4.0
29.....	3.0		3.9	8.0	8.5	4.4	5.0	2.2	3.2	2.5	8.5	3.8
30.....	2.9		3.8	8.0	7.8	4.0	4.7	1.5	4.5	3.0	8.0	3.5
31.....	2.8		3.3		8.8		4.5	1.4		3.1		3.2
Means.	4.1	4.9	6.0	5.4	7.8	7.0	5.3	2.2	2.0	6.0	8.8	4.4
<b>1901</b>												
1.....	3.0	2.6	3.2	4.6	6.0	4.3	1.8	0.5	0.7	0.4	0.5	0.5
2.....	2.8	2.4	3.0	4.8	5.5	4.2	1.7	1.1	0.5	0.4	0.4	0.5
3.....	2.9	2.8	3.0	6.0	5.4	5.6	1.6	2.6	0.4	0.2	0.4	0.4
4.....	2.8	3.0	2.8	8.5	5.0	6.0	1.6	2.2	0.3	0.1	0.4	0.4
5.....	2.6	3.2	2.5	8.0	5.5	5.0	1.6	1.9	0.3	0.1	0.4	0.3
6.....	2.5	3.0	2.5	8.0	6.2	4.8	1.5	1.5	0.2	0.1	0.3	0.3
7.....	2.5	3.0	2.4	8.2	6.5	4.3	1.4	1.0	0.2	0.1	0.3	0.3
8.....	2.4	3.4	2.3	8.0	6.9	4.0	1.3	0.8	0.2	0.3	0.3	0.3
9.....	2.4	3.8	3.5	7.1	6.5	3.8	1.2	1.8	0.6	0.8	0.2	0.6
10.....	2.6	4.0	14.0	6.8	6.0	3.5	1.0	2.8	0.4	0.9	0.3	0.4
11.....	3.6	4.3	13.0	6.5	5.8	4.5	0.9	3.2	0.2	0.9	0.4	0.3
12.....	4.5	4.0	11.0	7.6	5.6	4.5	0.9	3.0	0.2	0.8	0.4	0.3
13.....	4.3	3.9	10.0	10.0	4.8	5.3	0.8	2.6	0.2	0.8	0.5	0.5
14.....	4.0	3.8	9.9	12.2	4.5	4.5	0.8	2.5	0.2	0.8	0.5	3.2
15.....	3.5	3.6	11.0	12.5	4.3	3.9	0.7	2.4	0.5	0.5	0.4	2.5
16.....	4.2	3.5	11.5	12.9	4.0	4.9	0.7	2.0	1.0	0.3	0.4	2.0
17.....	4.8	3.2	9.5	11.4	3.7	4.3	0.7	1.7	1.3	0.3	0.6	1.9
18.....	4.6	3.2	8.5	14.0	3.6	4.0	0.7	1.5	1.0	0.3	0.7	1.7
19.....	4.0	3.2	7.0	16.0	4.0	3.0	0.6	1.2	1.2	0.6	0.6	1.5
20.....	3.8	3.2	6.0	15.2	6.2	2.8	0.6	1.3	1.3	0.7	0.5	0.9
21.....	3.5	3.0	5.4	14.0	10.7	3.0	0.5	1.2	1.5	0.7	0.5	1.0
22.....	3.0	3.0	5.2	13.0	12.0	3.0	0.4	1.2	1.2	0.5	0.5	1.6
23.....	3.0	2.8	4.8	12.0	12.3	2.8	0.4	1.6	1.0	0.5	0.5	2.0
24.....	3.0	2.8	4.8	11.0	11.0	2.6	0.4	1.5	1.3	0.4	0.4	1.9
25.....	2.9	2.8	6.0	10.2	9.0	2.4	0.4	1.4	1.5	1.1	0.4	1.8
26.....	2.9	3.0	6.5	8.9	7.0	2.3	0.4	1.3	1.4	1.2	0.4	1.8
27.....	2.8	3.0	6.0	8.0	6.5	2.2	0.4	1.2	1.0	1.0	0.4	2.0
28.....	2.8	3.2	5.5	7.5	6.0	2.1	0.4	1.0	0.8	0.9	0.4	1.8
29.....	2.6		5.0	6.8	5.2	2.0	0.4	1.0	0.7	0.8	0.4	1.6
30.....	2.6		4.9	6.5	5.0	1.9	0.4	0.9	0.6	0.8	0.4	1.5
31.....	2.5		4.9		4.6		1.0	0.7		0.6		1.2
Means.	3.2	3.2	6.3	9.5	6.3	3.7	0.9	1.6	0.7	0.6	0.4	1.2

## MISSISSIPPI RIVER SYSTEM—ARKANSAS RIVER, DARDANELLE, ARK.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	1.0	0.5	2.9	8.3	3.3	17.1	8.7	4.3	7.0	9.5	1.9	10.7
2.....	1.0	0.5	2.5	7.1	3.5	17.4	8.0	4.2	7.0	9.0	2.0	8.8
3.....	0.9	0.5	3.4	6.3	3.9	16.9	8.7	3.8	7.4	8.0	2.1	8.5
4.....	0.8	0.5	4.1	5.6	3.6	15.5	11.3	4.2	7.8	7.8	2.1	9.0
5.....	0.7	0.5	3.9	5.4	3.4	13.6	10.7	4.4	7.7	7.0	2.2	10.3
6.....	0.6	0.4	3.6	4.5	3.2	11.5	8.7	4.3	8.5	6.0	2.3	10.5
7.....	0.6	0.4	3.5	4.3	3.5	10.2	7.7	3.8	9.0	5.8	2.3	10.4
8.....	0.5	0.5	3.2	4.0	3.3	10.6	6.8	3.4	8.5	5.6	2.4	10.5
9.....	0.5	0.6	2.9	3.8	3.2	13.4	6.0	3.5	7.6	6.3	2.5	10.0
10.....	0.5	0.5	2.7	5.5	8.9	14.4	5.8	4.8	7.2	6.9	2.5	9.2
11.....	0.5	0.5	2.9	6.1	8.9	14.7	5.6	4.6	6.9	8.0	2.6	8.3
12.....	0.5	0.4	3.2	5.6	7.1	14.8	5.3	4.5	6.3	8.2	2.9	7.3
13.....	0.5	0.4	5.8	5.3	7.0	15.2	5.0	4.3	5.8	7.5	3.3	7.0
14.....	0.5	0.3	11.7	5.7	6.7	14.0	4.8	4.4	5.2	7.0	3.2	6.9
15.....	0.5	0.3	14.8	7.8	6.0	13.1	5.1	5.7	4.8	7.0	3.5	11.3
16.....	0.4	0.3	14.5	10.5	5.6	13.0	6.1	6.0	4.3	5.9	6.5	14.8
17.....	0.4	0.3	12.1	10.7	4.8	12.4	6.4	4.9	3.8	5.0	8.2	16.2
18.....	0.4	0.3	10.0	10.0	4.1	10.4	5.5	4.7	3.4	4.9	9.3	16.3
19.....	0.4	0.3	9.0	8.7	4.1	10.2	4.9	3.8	3.0	3.3	11.6	16.0
20.....	0.4	0.3	8.0	7.0	4.4	9.3	4.8	3.4	2.8	3.2	10.8	14.8
21.....	0.4	1.0	6.5	6.4	4.7	8.2	4.8	3.0	2.4	3.1	9.0	13.2
22.....	0.4	1.3	6.0	5.4	4.8	7.0	4.6	2.8	2.2	3.1	8.0	11.5
23.....	0.4	1.7	5.8	5.2	5.0	6.4	4.3	2.6	2.2	3.0	8.0	10.3
24.....	0.4	1.7	5.0	4.7	5.2	7.8	3.8	2.3	2.2	2.9	10.4	9.5
25.....	0.4	1.9	5.0	4.3	16.2	10.0	3.5	2.0	2.4	2.8	14.5	9.0
26.....	0.4	1.9	5.0	3.8	17.8	10.2	3.4	1.9	2.6	2.6	15.8	8.9
27.....	0.5	2.5	5.6	3.5	17.4	9.3	4.0	1.8	4.6	2.6	14.9	9.0
28.....	0.5	3.4	6.0	3.4	17.0	9.5	4.8	1.7	5.6	2.4	14.5	8.0
29.....	0.5	.....	8.0	3.1	16.9	9.4	5.7	3.5	10.6	2.4	14.1	7.6
30.....	0.3	.....	8.6	3.0	16.5	8.9	5.3	5.3	10.3	2.3	12.3	6.9
31.....	0.4	.....	8.8	.....	16.2	.....	5.3	6.0	.....	1.9	.....	6.5
<b>Means.</b>	<b>0.5</b>	<b>0.8</b>	<b>6.3</b>	<b>5.8</b>	<b>7.6</b>	<b>11.8</b>	<b>6.0</b>	<b>3.9</b>	<b>5.6</b>	<b>5.2</b>	<b>6.9</b>	<b>10.2</b>
<b>1903</b>												
1.....	6.0	4.1	13.8	8.4	3.8	23.2	8.9	3.0	3.6	1.8	1.8	2.0
2.....	5.8	4.2	14.9	8.0	3.7	23.0	8.1	2.9	3.2	1.7	1.7	2.0
3.....	5.7	4.2	15.1	7.8	3.4	22.5	7.4	3.0	3.1	1.6	1.6	2.0
4.....	5.8	8.0	14.6	7.6	3.3	22.0	7.0	3.0	2.9	1.6	1.6	2.0
5.....	6.4	7.8	13.9	6.4	3.3	21.6	6.8	4.0	2.8	2.2	2.4	1.9
6.....	6.8	6.7	14.5	6.2	3.3	20.5	10.7	3.4	2.9	4.3	3.5	1.8
7.....	7.0	7.2	15.1	5.9	3.4	18.9	13.7	2.8	2.8	4.2	4.5	1.8
8.....	6.8	10.0	17.0	5.7	4.2	18.2	12.6	3.2	2.4	4.0	9.1	1.8
9.....	6.7	10.5	15.6	7.7	6.7	17.5	11.1	3.7	2.4	4.1	9.8	1.8
10.....	6.3	9.0	19.0	10.2	9.3	16.6	10.9	3.6	2.2	4.5	8.9	1.8
11.....	5.6	8.8	20.6	10.0	9.6	15.2	10.3	4.2	2.0	4.3	7.8	1.7
12.....	5.3	8.5	20.9	8.0	11.3	15.1	8.6	3.9	1.9	3.9	7.0	1.7
13.....	5.0	11.1	20.2	7.4	12.4	13.1	7.5	4.5	1.9	3.5	6.2	1.8
14.....	4.9	12.1	18.9	7.5	12.8	12.8	7.0	7.4	1.9	4.5	5.5	2.0
15.....	4.6	15.2	17.0	10.0	13.2	12.5	6.5	8.0	1.8	5.3	4.6	2.1
16.....	4.3	16.5	15.7	10.1	15.3	12.2	5.6	8.1	1.9	5.8	4.2	2.3
17.....	4.2	17.0	14.5	8.9	15.5	11.7	5.2	8.2	3.8	4.8	3.9	2.1
18.....	4.2	15.8	13.6	7.6	15.3	10.4	4.8	7.0	4.7	3.5	3.5	2.0
19.....	4.0	14.3	12.1	7.6	14.8	10.0	5.5	6.4	4.6	3.0	3.5	2.0
20.....	3.9	13.5	13.0	7.5	15.9	9.2	5.4	7.0	4.5	2.8	3.4	1.8
21.....	3.8	12.2	13.6	7.0	15.6	8.0	4.8	7.5	3.8	3.0	3.3	1.8
22.....	3.6	10.5	14.9	6.0	16.6	7.5	4.6	7.1	3.3	3.8	3.0	1.8
23.....	3.5	9.5	15.6	5.5	17.9	7.0	4.2	7.2	3.0	4.0	2.9	1.8
24.....	3.5	9.0	15.9	5.3	19.8	7.2	4.0	7.4	2.8	3.7	2.8	1.8
25.....	3.5	9.3	14.5	5.0	20.2	7.0	3.9	6.9	2.6	3.3	2.6	3.5
26.....	3.5	9.2	12.9	4.8	20.3	7.0	3.8	6.3	2.4	3.0	2.6	4.2
27.....	3.5	10.7	11.7	4.5	22.0	7.1	3.5	5.4	2.2	2.5	2.4	4.0
28.....	4.0	12.3	10.6	4.4	22.1	7.8	3.2	4.5	2.0	2.2	2.3	3.8
29.....	4.3	.....	9.7	4.1	21.0	8.0	3.0	4.0	1.9	2.0	2.2	3.5
30.....	4.2	.....	9.4	4.0	20.8	9.0	3.1	4.1	1.8	1.9	2.0	3.2
31.....	4.1	.....	8.9	.....	22.7	.....	2.9	3.8	.....	1.8	.....	3.0
<b>Means.</b>	<b>4.9</b>	<b>10.3</b>	<b>14.8</b>	<b>7.0</b>	<b>12.9</b>	<b>13.4</b>	<b>6.6</b>	<b>5.2</b>	<b>2.8</b>	<b>3.3</b>	<b>4.0</b>	<b>2.3</b>

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSISSIPPI RIVER SYSTEM—ARKANSAS RIVER, DARDANELLE, ARK.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1904</b>												
1.....	3.0	5.6	2.8	8.8	12.1	11.5	16.9	8.6	6.4	4.8	2.8	2.0
2.....	3.0	5.0	2.7	7.9	12.1	12.6	16.7	8.4	6.0	4.0	2.8	2.0
3.....	3.0	4.7	2.5	7.0	12.5	12.4	15.4	8.1	6.3	3.8	2.8	2.0
4.....	2.9	4.4	2.2	6.9	11.6	12.7	15.9	7.6	6.0	3.5	2.8	2.0
5.....	2.7	4.2	2.1	6.1	10.7	23.5	16.2	7.8	5.6	3.4	2.8	2.0
6.....	2.5	4.0	2.1	5.6	9.0	26.0	16.8	10.0	5.0	4.0	2.8	2.0
7.....	2.4	4.0	2.1	5.4	7.1	27.0	17.3	10.3	4.8	13.4	2.8	2.0
8.....	2.2	3.9	2.0	5.8	6.1	27.8	17.8	10.0	4.5	10.1	2.7	2.0
9.....	2.0	4.0	2.0	6.5	6.9	28.4	19.1	8.5	4.4	7.5	2.7	2.0
10.....	2.0	3.9	2.0	6.9	8.2	28.2	20.5	7.6	4.3	5.5	2.7	2.0
11.....	1.8	3.9	2.0	7.1	9.2	27.8	21.8	7.3	4.2	5.0	2.7	2.0
12.....	1.8	3.7	1.9	6.8	10.5	27.0	22.5	7.8	4.0	4.6	2.5	2.0
13.....	1.8	3.5	1.9	5.9	10.8	26.2	23.2	7.4	3.9	4.2	2.5	2.0
14.....	1.6	3.2	1.9	5.4	10.7	25.4	23.5	6.4	3.8	4.0	2.5	2.0
15.....	1.6	3.0	1.9	4.9	10.0	24.2	23.2	6.3	3.9	4.5	2.2	2.0
16.....	1.6	3.0	2.0	4.9	9.4	23.0	23.0	6.2	3.8	4.5	2.2	2.0
17.....	1.6	3.0	2.0	4.9	8.1	21.3	22.8	5.7	3.8	4.5	2.2	2.0
18.....	1.6	2.9	2.4	5.0	7.1	20.0	22.5	5.5	3.8	4.0	2.2	2.0
19.....	1.6	3.2	3.4	4.9	6.5	18.7	20.9	5.3	3.9	4.0	2.2	2.0
20.....	1.6	3.0	4.0	4.8	6.2	17.9	19.6	5.3	5.0	3.9	2.2	2.0
21.....	1.6	3.0	4.8	4.0	5.8	16.6	18.0	5.7	4.0	3.8	2.2	2.0
22.....	11.8	3.7	4.8	3.8	7.2	15.7	16.6	5.6	4.5	3.8	2.2	2.0
23.....	11.0	4.5	4.7	3.9	9.5	15.2	15.0	7.9	4.8	3.6	2.2	2.0
24.....	12.3	4.0	4.0	4.4	9.8	15.8	13.7	9.8	5.0	3.4	2.2	2.0
25.....	12.8	3.8	7.0	4.3	9.0	15.8	12.2	9.1	4.5	3.4	2.2	2.0
26.....	12.1	3.8	13.0	4.7	8.1	15.1	10.4	8.5	3.9	3.3	2.2	2.0
27.....	11.0	3.5	14.5	4.8	7.2	14.8	9.9	11.4	3.8	3.2	2.2	2.0
28.....	9.0	3.3	13.2	5.1	6.2	14.6	9.7	11.4	3.7	3.2	2.1	2.0
29.....	8.1	3.0	11.7	11.4	5.6	15.5	9.0	9.8	5.5	3.2	2.1	2.0
30.....	7.0	.....	11.3	12.4	5.6	17.0	8.6	8.3	5.7	3.1	2.1	2.0
31.....	6.3	.....	10.3	.....	7.0	.....	8.7	7.3	.....	3.0	.....	2.0
Means.	4.7	3.7	4.7	6.0	8.6	19.9	17.0	7.9	4.6	4.5	2.4	2.0

## MISSISSIPPI RIVER SYSTEM—ARKANSAS RIVER, LITTLE ROCK, ARK.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	5.3	4.2	9.2	4.9	9.5	9.4	5.7	5.7	3.9	3.0	4.3	9.5
2.....	4.9	4.0	11.0	4.6	10.3	10.5	5.6	5.4	3.3	6.4	8.6	8.5
3.....	4.5	3.8	10.5	4.4	10.5	10.8	5.5	5.0	3.0	8.4	11.4	8.0
4.....	4.3	3.7	9.5	4.4	10.0	11.0	6.0	4.5	3.5	11.5	12.4	7.4
5.....	4.1	3.6	8.8	4.2	9.0	11.7	5.9	4.3	3.8	13.4	12.7	6.8
6.....	4.0	3.6	8.3	4.0	8.5	11.3	5.6	4.0	4.0	13.6	12.1	6.5
7.....	3.8	3.8	8.0	4.0	8.0	10.5	9.0	3.8	4.1	13.2	11.5	6.3
8.....	3.7	4.0	8.5	3.9	7.8	10.2	11.0	3.6	3.7	13.0	11.5	6.0
9.....	3.7	4.8	9.0	3.8	8.8	9.9	10.5	3.7	3.2	12.5	11.9	5.9
10.....	4.0	12.4	8.7	3.9	9.4	9.8	8.7	3.8	2.9	11.3	12.0	5.5
11.....	4.9	12.5	8.3	3.9	11.5	9.0	7.1	3.5	2.5	9.6	11.2	5.5
12.....	6.8	11.8	9.4	4.0	12.0	8.6	6.0	3.1	2.4	8.0	9.5	5.4
13.....	7.9	11.5	10.5	4.1	10.9	8.5	5.3	2.8	2.2	6.6	8.0	5.0
14.....	8.0	10.9	10.4	4.3	9.6	8.4	4.8	2.7	2.1	5.8	6.9	4.8
15.....	7.6	9.8	9.5	5.7	9.0	8.0	4.4	2.5	2.0	5.2	6.3	4.7
16.....	7.5	8.5	8.6	6.9	8.5	7.7	4.3	2.4	1.9	4.9	5.8	4.7
17.....	7.2	7.4	8.3	7.6	7.9	7.5	4.2	2.3	1.9	4.7	5.5	4.6
18.....	6.9	6.5	8.2	8.3	7.5	7.5	4.4	2.3	1.8	4.4	5.0	4.5
19.....	8.5	5.9	8.5	9.3	7.0	7.8	4.5	2.2	1.8	3.9	4.8	4.6
20.....	9.8	5.5	9.0	9.5	6.6	7.8	4.3	2.1	1.9	3.6	4.8	6.4
21.....	9.7	5.4	9.3	8.9	6.4	7.7	4.7	2.4	2.0	3.5	9.5	8.5
22.....	9.0	5.5	9.0	8.5	6.4	7.7	4.7	2.5	2.4	3.6	10.1	9.8
23.....	8.0	6.0	8.1	8.0	6.5	7.5	8.3	2.9	3.5	3.6	11.3	10.0
24.....	7.1	6.2	7.6	8.1	8.5	7.5	8.5	2.8	3.9	4.8	12.3	9.8
25.....	6.5	6.5	7.0	9.4	10.4	7.5	7.7	2.5	3.8	5.1	13.0	9.0
26.....	6.0	6.6	6.7	10.3	11.7	7.0	7.0	2.4	4.0	4.7	13.0	8.0
27.....	5.5	6.5	6.5	10.8	10.7	7.1	6.4	3.0	4.0	4.4	12.3	7.1
28.....	5.4	7.0	6.2	11.3	9.5	7.0	5.8	4.4	4.2	4.2	11.5	6.8
29.....	5.0	.....	6.0	10.8	9.0	6.6	5.5	6.3	3.9	3.9	11.2	6.0
30.....	4.6	.....	5.6	9.8	9.5	6.0	5.6	6.0	3.8	3.8	10.6	6.0
31.....	4.5	.....	5.3	.....	9.0	.....	5.9	4.8	.....	3.8	.....	5.6
Means.	6.1	6.7	8.3	6.7	9.0	8.6	6.2	3.5	3.0	6.7	9.7	6.7

## MISSISSIPPI RIVER SYSTEM—ARKANSAS RIVER, LITTLE ROCK, ARK.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	5.5	3.5	4.5	7.8	8.4	6.0	3.5	1.9	1.9	1.8	1.7	1.4
2.....	5.4	3.5	4.5	7.7	8.0	5.8	3.3	2.1	1.8	1.7	1.8	1.8
3.....	5.2	3.7	4.4	7.6	7.6	5.5	3.0	2.1	1.7	1.6	1.8	1.7
4.....	4.8	4.8	4.3	8.0	7.3	5.4	3.0	2.2	1.7	1.5	1.7	1.6
5.....	4.6	6.0	4.2	10.0	7.0	7.0	2.8	3.3	1.6	1.4	1.6	1.7
6.....	4.6	6.4	3.8	10.0	6.8	6.9	2.8	3.4	1.5	1.4	1.5	1.5
7.....	4.5	6.4	3.7	9.8	7.2	6.0	2.8	3.1	1.4	1.3	1.5	1.4
8.....	4.5	6.0	3.6	10.2	7.6	5.8	2.8	2.8	1.4	1.2	1.4	1.4
9.....	4.3	6.0	4.5	10.0	8.0	5.5	2.6	2.5	1.4	1.4	1.4	2.0
10.....	4.4	6.4	6.8	9.0	8.1	5.2	2.5	2.1	1.4	1.5	1.4	2.1
11.....	4.8	6.8	14.2	8.2	7.6	4.8	2.4	2.0	1.7	1.8	1.4	2.2
12.....	6.0	7.2	15.5	8.0	7.0	4.8	2.3	3.6	1.6	2.3	1.5	2.2
13.....	6.9	7.2	14.5	9.3	7.0	5.9	2.2	4.3	1.5	2.4	1.5	2.0
14.....	7.0	7.0	14.0	11.2	6.6	6.0	2.0	4.2	1.9	2.0	1.6	4.3
15.....	6.4	6.5	13.8	13.2	6.0	6.3	2.0	3.7	1.7	1.8	1.6	7.1
16.....	6.0	6.0	13.8	13.9	5.9	5.5	2.0	3.4	1.3	1.7	1.5	7.9
17.....	6.0	5.9	13.9	13.4	5.7	5.5	2.0	3.0	1.6	1.6	1.5	6.6
18.....	6.2	5.7	12.5	13.9	5.4	5.8	1.9	2.7	2.1	1.5	1.5	5.3
19.....	6.0	5.5	10.9	16.5	5.5	5.4	1.8	2.7	2.2	1.4	1.7	Frozen.
20.....	5.7	5.2	9.8	17.9	5.2	4.7	1.8	2.6	2.1	1.5	1.8	-----
21.....	5.3	5.0	8.8	17.5	6.5	4.3	1.7	2.5	2.2	1.7	1.8	-----
22.....	4.8	4.8	8.0	16.4	10.8	4.0	1.6	2.4	2.3	1.8	1.7	-----
23.....	4.7	4.5	7.6	15.2	12.4	4.2	1.5	2.4	2.6	1.8	1.7	3.1
24.....	4.5	4.5	7.2	14.1	13.0	4.0	1.4	2.3	2.5	1.8	1.6	3.1
25.....	4.5	4.3	7.0	13.0	12.0	3.9	1.4	2.3	2.2	1.6	1.6	3.4
26.....	4.5	4.3	7.5	12.3	10.2	3.7	1.2	2.3	2.2	1.5	1.6	3.4
27.....	4.4	4.4	8.2	11.0	8.8	3.6	1.1	2.2	2.5	1.9	1.5	3.3
28.....	4.3	4.4	8.0	10.0	8.0	3.6	1.5	2.2	2.5	2.3	1.6	3.3
29.....	4.0	-----	7.6	9.5	7.8	3.6	1.5	2.1	2.2	2.3	1.5	3.3
30.....	3.8	-----	7.5	9.0	7.0	3.5	1.5	2.1	1.9	2.1	1.5	3.1
31.....	3.6	-----	7.8	-----	6.5	-----	1.8	2.0	-----	1.9	-----	3.1
<b>Means.</b>	<b>5.1</b>	<b>5.4</b>	<b>8.8</b>	<b>11.5</b>	<b>7.8</b>	<b>5.1</b>	<b>2.1</b>	<b>2.7</b>	<b>1.9</b>	<b>1.7</b>	<b>1.6</b>	<b>2.7</b>
<b>1902</b>												
1.....	3.0	4.3	8.5	11.8	4.9	17.2	12.2	9.5	6.9	11.5	3.3	14.5
2.....	2.7	4.0	8.4	11.1	5.0	18.0	11.8	7.9	7.9	11.0	3.2	13.1
3.....	2.5	4.0	7.5	10.1	5.5	18.4	11.0	6.9	8.2	10.2	3.1	11.9
4.....	2.3	3.9	6.8	9.2	5.6	17.9	10.6	6.0	8.2	9.4	3.1	11.4
5.....	2.2	3.5	7.2	8.5	5.4	16.5	12.2	5.9	8.9	8.2	3.1	12.0
6.....	2.1	3.3	7.3	7.7	5.2	14.8	12.4	6.0	8.9	7.5	3.2	13.0
7.....	2.1	3.1	7.0	7.2	5.0	13.1	11.0	6.0	9.3	7.1	3.2	13.4
8.....	1.8	3.0	6.6	7.0	4.8	11.8	9.8	5.9	10.1	7.1	3.1	13.4
9.....	1.7	2.9	6.2	7.6	4.8	11.7	8.9	5.4	10.0	6.9	3.1	13.5
10.....	1.7	2.9	5.7	7.7	4.8	13.7	8.2	5.1	9.2	6.9	3.4	12.9
11.....	1.7	2.9	5.3	7.9	6.6	15.0	7.7	5.5	8.5	7.6	3.4	12.1
12.....	1.7	2.8	5.2	8.3	10.3	15.5	7.4	6.2	8.4	8.5	3.3	11.2
13.....	1.6	2.8	5.4	9.0	9.5	15.7	7.0	5.6	7.9	9.2	3.5	10.3
14.....	1.6	2.8	7.5	9.8	8.6	16.0	6.5	5.8	7.4	9.1	3.4	9.5
15.....	1.6	2.8	13.1	10.1	8.3	15.2	6.5	6.1	6.9	8.4	4.3	11.5
16.....	1.6	2.7	16.0	11.0	7.8	14.3	6.6	6.7	6.4	8.0	4.2	15.2
17.....	1.5	2.8	15.8	13.0	7.5	14.0	6.9	7.3	5.8	7.5	5.5	17.9
18.....	1.5	2.7	14.0	13.2	7.2	13.6	7.5	7.0	5.4	6.8	8.2	19.0
19.....	1.5	2.7	12.1	12.6	6.4	12.9	7.4	6.2	5.0	5.9	10.1	19.2
20.....	1.6	3.2	10.5	11.5	5.8	11.5	6.8	5.5	4.5	5.4	12.5	18.9
21.....	1.7	4.2	9.2	10.1	5.8	11.0	6.4	5.1	4.2	5.0	12.5	17.9
22.....	1.6	5.9	8.3	9.0	6.0	10.0	6.2	4.7	3.9	4.7	11.0	16.5
23.....	1.6	6.4	7.8	8.3	6.2	9.1	6.3	4.3	4.0	4.4	9.7	15.0
24.....	1.7	6.5	7.7	7.6	6.3	8.3	6.0	4.0	4.0	4.2	9.9	13.8
25.....	1.6	6.6	7.5	6.9	6.3	8.5	5.6	3.8	3.8	4.1	12.2	12.7
26.....	1.7	8.0	7.6	6.3	14.6	11.1	5.4	3.6	3.5	3.8	16.3	12.0
27.....	3.2	8.1	9.4	5.9	17.1	11.4	5.0	3.4	3.8	3.8	17.3	11.5
28.....	3.3	8.0	10.3	5.5	18.1	11.0	5.0	3.3	4.2	3.7	16.4	11.1
29.....	3.8	-----	10.8	5.3	17.7	11.5	5.7	3.3	8.2	3.6	16.4	10.7
30.....	4.2	-----	11.3	4.9	17.8	11.2	6.8	3.4	10.9	3.5	15.9	10.0
31.....	4.2	-----	11.9	-----	17.5	-----	8.6	4.9	-----	3.3	-----	9.4
<b>Means.</b>	<b>2.1</b>	<b>4.2</b>	<b>9.0</b>	<b>8.8</b>	<b>8.5</b>	<b>13.3</b>	<b>7.9</b>	<b>5.5</b>	<b>6.8</b>	<b>6.7</b>	<b>7.6</b>	<b>13.4</b>

## MISSISSIPPI RIVER SYSTEM—ARKANSAS RIVER, LITTLE ROCK, ARK.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	8.9	6.7	15.4	10.9	4.8	24.1	9.9	4.9	6.0	3.5	3.5	3.7
2.....	8.7	6.5	16.6	10.4	4.5	24.7	10.1	4.7	5.6	3.5	3.3	3.6
3.....	8.5	6.1	17.4	9.9	5.4	<sup>a</sup> 24.7	9.5	4.7	5.4	3.5	3.3	3.5
4.....	8.4	7.2	17.5	9.5	5.3	24.5	8.9	4.6	5.1	3.5	3.6	3.4
5.....	8.8	10.2	17.1	8.9	5.1	24.2	8.4	4.6	4.8	3.7	3.8	3.4
6.....	8.9	10.8	16.8	8.6	5.0	23.8	8.2	4.8	4.4	4.3	3.8	3.3
7.....	9.0	10.2	17.4	8.3	5.0	23.2	10.4	5.3	4.4	5.3	3.9	3.3
8.....	9.5	10.5	18.0	8.2	5.1	22.4	14.5	4.9	4.4	6.3	4.8	3.2
9.....	9.3	11.9	19.6	8.3	6.4	21.5	13.6	4.6	4.3	6.2	7.8	3.2
10.....	8.8	13.1	19.6	9.2	9.1	20.5	12.3	4.8	4.2	5.6	10.1	3.2
11.....	8.3	12.5	21.9	11.4	11.8	19.3	11.9	5.1	3.8	5.5	9.1	3.2
12.....	8.1	12.1	23.0	11.6	12.4	17.6	11.4	5.5	3.7	5.9	9.0	3.1
13.....	8.0	12.8	23.3	10.5	14.7	16.0	10.2	5.4	3.7	5.7	8.3	3.2
14.....	7.8	14.0	22.6	9.3	15.4	15.0	9.3	5.9	3.7	5.1	7.6	3.2
15.....	7.3	15.0	22.1	8.9	15.9	14.4	8.4	7.6	3.7	4.8	6.5	3.2
16.....	7.0	17.6	20.7	10.6	16.1	14.0	7.8	9.1	3.6	5.8	6.3	3.2
17.....	6.8	19.7	19.4	11.4	17.6	13.6	7.4	9.3	3.7	6.4	5.8	3.3
18.....	6.5	19.5	18.4	10.4	17.8	13.0	6.9	9.4	4.0	5.9	5.3	3.3
19.....	6.4	18.7	17.2	9.4	17.5	12.0	6.5	8.8	5.4	5.1	4.8	3.3
20.....	6.0	18.1	15.8	9.0	16.9	11.4	6.4	8.3	6.0	4.4	4.6	3.3
21.....	6.3	17.3	16.0	8.8	17.8	10.7	6.8	8.1	6.0	4.2	4.6	3.2
22.....	6.2	16.2	16.8	8.5	17.8	10.1	6.5	8.5	5.4	4.1	4.5	3.1
23.....	6.0	15.0	17.5	7.9	18.7	9.4	6.3	8.5	5.0	4.3	4.4	3.1
24.....	5.7	13.8	18.2	7.4	20.0	8.9	5.9	8.2	4.6	4.8	4.2	3.1
25.....	4.8	12.8	18.3	7.0	21.5	8.8	5.7	8.5	4.4	4.9	4.1	3.6
26.....	5.7	12.5	17.1	6.8	21.8	8.8	5.6	8.0	4.3	4.7	3.9	3.9
27.....	5.8	12.7	15.8	6.5	22.0	8.7	5.4	7.7	4.1	4.4	3.9	4.5
28.....	5.9	14.0	14.3	6.3	23.3	8.6	5.3	7.0	3.9	4.1	3.9	5.4
29.....	6.2	.....	13.0	6.1	23.5	9.0	5.2	6.4	3.8	3.9	3.8	5.2
30.....	6.7	.....	12.1	5.6	23.2	9.2	5.0	6.3	3.6	3.7	3.8	4.8
31.....	6.7	.....	11.5	.....	23.2	.....	5.1	6.1	.....	3.6	.....	4.5
<b>Means.</b>	<b>7.3</b>	<b>13.1</b>	<b>17.8</b>	<b>8.9</b>	<b>14.3</b>	<b>15.7</b>	<b>8.2</b>	<b>6.6</b>	<b>4.5</b>	<b>4.7</b>	<b>5.2</b>	<b>3.6</b>
<b>1904</b>												
1.....	4.3	8.1	5.6	13.5	13.0	7.1	18.8	10.3	9.1	6.1	4.6	3.6
2.....	4.1	7.3	5.3	11.0	13.2	10.4	18.8	10.3	9.2	5.6	4.4	3.5
3.....	4.1	6.7	5.0	9.9	13.1	12.8	18.6	10.0	8.9	5.6	4.3	3.5
4.....	4.0	6.3	4.8	9.0	13.4	13.1	17.8	9.6	8.7	4.7	4.3	3.5
5.....	3.9	5.8	4.5	8.4	12.5	18.4	17.4	9.5	7.4	5.4	3.9	3.5
6.....	3.8	5.6	4.4	7.8	11.6	24.7	17.6	9.5	7.0	5.4	3.9	3.5
7.....	3.6	5.5	4.3	7.5	10.6	25.8	18.4	10.9	6.6	5.4	4.0	3.5
8.....	3.5	5.2	4.3	7.3	9.3	26.3	19.1	11.7	6.3	12.8	3.9	3.5
9.....	3.3	5.1	4.3	7.4	9.1	27.0	19.6	11.5	5.9	12.2	3.9	3.5
10.....	3.2	5.1	4.3	8.0	8.7	27.5	21.1	10.4	5.7	9.2	3.9	3.4
11.....	3.3	5.1	4.3	8.5	9.3	<sup>b</sup> 27.6	22.5	9.4	5.6	7.8	3.9	3.4
12.....	3.3	5.0	4.3	8.8	10.0	27.7	23.4	8.8	5.5	7.3	3.9	3.4
13.....	3.3	4.8	4.1	8.5	11.1	27.4	24.0	9.2	5.4	6.8	3.8	3.4
14.....	3.2	4.6	4.0	7.8	11.6	27.2	24.6	9.0	5.4	6.2	3.8	3.4
15.....	3.1	4.4	4.2	7.1	11.8	26.8	24.9	8.5	5.3	6.0	3.8	3.4
16.....	3.1	4.3	4.3	6.6	11.0	26.2	24.9	7.9	5.3	5.8	3.7	3.4
17.....	3.1	4.3	4.8	6.7	10.4	25.7	24.8	7.7	5.4	6.3	3.7	3.4
18.....	3.0	4.3	5.4	6.8	9.3	24.9	24.5	7.4	5.5	6.3	3.7	3.4
19.....	2.9	5.3	6.1	6.7	8.3	23.8	24.1	7.1	5.5	5.9	3.6	3.4
20.....	2.9	6.9	7.2	6.5	7.6	22.6	23.4	6.7	5.4	5.5	3.6	3.4
21.....	2.9	7.5	7.9	6.2	7.3	21.4	22.2	6.6	5.5	5.3	3.7	3.4
22.....	3.9	7.9	8.3	5.8	7.0	20.0	20.6	6.5	5.5	5.4	3.6	3.4
23.....	9.0	8.0	9.1	5.5	7.0	18.7	18.9	6.8	5.9	5.4	3.6	3.4
24.....	13.3	8.4	8.8	5.8	9.2	17.9	16.9	7.7	6.3	5.4	3.6	3.6
25.....	14.8	8.3	8.1	6.1	10.2	18.1	15.4	10.4	6.5	5.0	3.6	3.6
26.....	15.5	7.5	8.5	6.6	10.0	17.8	13.9	10.7	6.6	4.9	3.6	3.8
27.....	14.5	7.2	15.0	6.8	9.1	17.4	12.5	9.8	6.1	4.8	3.6	3.8
28.....	12.8	7.0	16.3	6.8	8.3	16.6	11.7	11.8	5.4	4.6	3.6	3.9
29.....	11.3	6.1	15.1	6.7	7.4	16.5	11.5	12.3	5.0	4.5	3.6	3.7
30.....	9.9	.....	14.0	11.0	6.5	17.5	10.8	11.2	4.8	4.5	3.6	3.6
31.....	8.8	.....	13.4	.....	6.5	.....	10.4	10.0	.....	4.8	.....	3.6
<b>Means.</b>	<b>6.0</b>	<b>6.1</b>	<b>7.1</b>	<b>7.7</b>	<b>9.8</b>	<b>21.2</b>	<b>19.1</b>	<b>9.3</b>	<b>6.2</b>	<b>6.2</b>	<b>3.8</b>	<b>3.5</b>

<sup>a</sup> Maximum stage, 24.8.<sup>b</sup> 27.8 at 7 p. m.

## MISSISSIPPI RIVER SYSTEM—YAZOO RIVER, GREENWOOD, MISS.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1904</b>												
1.....											-0.1	0.4
2.....											-0.1	0.4
3.....											0.0	0.5
4.....											0.0	0.5
5.....											0.0	0.8
6.....											0.0	0.7
7.....											0.0	0.9
8.....											0.0	0.9
9.....											0.0	1.3
10.....											0.0	1.4
11.....											0.0	1.4
12.....											0.0	1.4
13.....											0.0	1.5
14.....											-0.1	1.7
15.....											-0.1	1.8
16.....											-0.1	1.5
17.....											-0.1	1.2
18.....											0.0	1.0
19.....											0.0	0.8
20.....											0.0	0.7
21.....											0.1	0.5
22.....											0.1	0.5
23.....											0.2	0.5
24.....											0.2	0.5
25.....											0.0	1.1
26.....											0.1	1.9
27.....											0.2	5.4
28.....											0.3	12.0
29.....											0.3	14.0
30.....											0.3	14.2
31.....												18.0
Means.											0.0	2.9

## MISSISSIPPI RIVER SYSTEM—YAZOO RIVER, YAZOO CITY, MISS.

<b>1900</b>												
1.....	5.0	1.0	15.0	19.7	22.9	8.0	21.1	18.7	0.6	1.6	9.6	9.6
2.....	4.6	0.7	15.0	19.5	22.9	9.5	21.2	18.2	0.6	1.5	9.6	9.8
3.....	4.3	0.4	15.0	19.2	22.9	8.1	21.3	17.8	0.6	1.4	9.6	10.0
4.....	4.0	0.4	15.3	18.8	22.9	8.3	21.4	17.4	0.7	1.2	9.5	10.3
5.....	3.5	0.4	15.4	18.5	22.8	8.6	21.5	17.0	0.7	0.9	9.3	10.5
6.....	3.0	0.3	15.4	18.1	22.7	9.4	21.6	16.5	0.6	0.6	9.2	10.8
7.....	2.4	0.2	15.5	17.6	22.6	10.3	21.7	16.0	0.4	0.2	9.0	11.1
8.....	1.7	0.2	16.0	17.0	22.4	11.0	21.9	15.5	0.1	0.1	8.8	11.5
9.....	1.2	1.1	16.1	16.4	22.3	11.5	22.0	14.7	0.9	-0.3	8.5	11.7
10.....	0.9	1.5	16.2	15.6	22.0	12.0	22.1	13.7	0.9	-0.5	8.1	11.9
11.....	1.3	2.0	16.3	17.6	21.7	12.6	22.1	12.9	0.8	-0.7	7.7	12.0
12.....	1.3	3.2	16.4	17.2	21.4	13.1	22.1	11.7	0.8	-0.7	7.3	12.1
13.....	1.0	4.9	16.5	17.0	21.0	13.9	22.1	10.5	0.7	-0.6	6.8	12.2
14.....	1.0	6.0	16.5	17.0	20.7	17.6	22.1	9.2	0.6	-0.5	6.2	12.2
15.....	1.6	6.9	16.5	17.2	20.3	17.3	22.0	7.8	0.5	-0.3	5.5	12.0
16.....	2.1	7.5	17.0	17.6	20.0	17.6	21.9	6.5	0.4	0.1	4.7	11.7
17.....	2.5	8.0	17.2	21.5	19.6	17.7	21.9	5.3	0.3	0.3	3.9	11.5
18.....	2.8	8.3	17.3	21.4	19.2	18.1	21.8	4.3	0.2	0.8	3.2	11.1
19.....	3.0	8.5	18.8	21.8	18.6	18.8	21.6	3.5	0.1	0.9	2.5	10.7
20.....	3.3	8.8	19.5	22.0	18.0	19.1	22.3	2.8	0.1	1.0	2.1	11.8
21.....	3.5	9.9	19.5	22.0	17.4	19.8	22.0	2.4	0.6	0.9	1.6	11.1
22.....	3.6	10.5	19.8	22.0	16.6	20.0	21.5	2.0	0.5	1.3	1.4	10.7
23.....	3.7	11.0	20.0	22.2	16.0	20.0	21.2	1.7	0.5	1.4	2.2	10.5
24.....	3.7	11.4	20.2	22.2	15.0	20.2	20.9	1.4	0.7	1.2	3.6	10.5
25.....	3.6	12.1	20.5	22.2	13.8	20.3	20.6	1.2	0.0	1.9	5.0	10.5
26.....	3.4	12.4	20.5	22.2	12.7	20.5	20.5	1.0	0.4	3.9	6.2	10.5
27.....	3.1	12.5	20.5	22.3	11.6	20.8	20.4	0.9	0.9	6.0	7.0	10.2
28.....	2.7	14.4	20.5	22.3	10.4	20.8	20.2	0.8	1.3	7.1	8.0	10.8
29.....	2.3		20.3	22.9	9.2	20.9	19.9	0.7	1.5	8.0	8.6	11.1
30.....	1.8		20.2	23.0	8.0	21.0	19.4	0.6	1.6	8.7	9.1	11.4
31.....	1.4		20.0		7.1		19.0	0.6		9.1		11.7
Means.	2.7	5.9	17.7	19.8	18.2	15.6	21.3	8.2	0.6	1.8	6.5	11.1

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSISSIPPI RIVER SYSTEM—YAZOO RIVER, YAZOO CITY, MISS.—Continued.

	Jan.	Feb.	Mar.	Apr.	May	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	11.8	16.8	16.4	16.5	16.6	9.0	-0.1	-1.4	9.1	7.4	-1.5	0.1
2.....	11.9	16.7	16.0	16.4	16.6	8.1	-0.2	-1.4	8.9	7.3	-1.5	0.1
3.....	12.1	17.7	15.6	16.2	16.5	7.6	-0.3	-1.4	8.4	7.0	-1.5	0.0
4.....	12.2	18.2	15.1	16.0	16.3	7.5	-0.3	-1.3	7.8	6.9	-1.0	-0.4
5.....	12.3	17.8	14.7	15.6	16.0	7.4	-0.2	-1.0	7.0	6.8	-1.3	-0.5
6.....	12.4	17.6	14.1	15.3	15.8	7.2	-0.1	-0.7	6.2	6.5	-1.4	-0.5
7.....	12.4	17.6	13.4	14.9	15.6	7.5	0.1	-0.8	5.3	6.0	-1.5	-0.6
8.....	12.4	18.0	12.6	14.5	15.5	7.0	0.3	-1.0	4.3	5.6	-1.5	-0.8
9.....	12.4	17.7	11.8	14.2	15.4	6.5	0.4	-1.2	3.4	4.8	-1.5	2.1
10.....	12.4	17.8	12.0	13.9	15.2	6.1	0.4	-1.3	2.5	4.0	-1.5	2.5
11.....	18.3	17.7	12.3	13.7	15.2	5.7	0.3	-1.4	1.8	3.1	-1.5	2.3
12.....	18.2	17.9	12.4	13.6	15.2	5.4	0.1	-0.1	1.1	2.3	-1.6	2.8
13.....	17.6	17.9	12.6	13.4	15.2	5.0	-0.3	-0.3	1.0	1.7	-1.6	3.5
14.....	17.6	17.8	12.9	13.3	15.5	4.7	-0.6	-0.7	2.5	1.1	-1.7	6.7
15.....	17.8	17.7	13.0	13.1	15.5	4.5	-0.9	1.2	2.5	0.7	-1.7	6.9
16.....	17.8	17.7	13.1	12.9	15.4	4.2	-1.0	2.0	3.0	0.4	-1.8	7.3
17.....	17.8	17.7	13.3	12.8	15.4	4.1	-1.2	1.2	3.5	0.2	-1.8	8.0
18.....	17.8	17.6	13.5	14.4	15.4	3.9	-1.2	1.8	4.7	0.0	-1.8	8.7
19.....	17.7	17.5	13.7	14.6	15.1	3.7	-1.2	2.6	5.9	-0.3	-1.7	9.3
20.....	17.6	17.5	14.0	14.8	14.7	3.5	-1.2	3.8	7.0	-0.5	-1.7	9.5
21.....	17.5	17.4	14.3	15.2	14.2	3.3	-0.5	4.9	7.7	-0.7	-1.7	9.7
22.....	17.5	17.3	14.7	15.5	13.2	3.0	-0.3	5.6	8.2	-0.7	-1.4	9.8
23.....	17.3	17.2	15.0	15.8	11.9	2.6	-0.7	6.1	8.3	-0.8	-0.4	9.8
24.....	17.4	17.1	15.5	16.0	10.7	2.2	-0.7	6.5	8.3	-0.8	-0.1	9.8
25.....	17.4	17.0	15.9	16.1	11.7	1.8	-0.8	6.9	8.3	-0.8	-0.1	9.8
26.....	17.3	16.8	16.2	16.3	12.2	1.4	-0.9	7.3	8.1	-0.9	-0.1	9.7
27.....	17.3	16.5	16.2	16.5	11.3	1.0	-1.0	8.4	8.0	-1.0	0.5	9.7
28.....	17.3	16.2	16.2	16.6	10.7	0.6	-1.1	8.3	7.8	-1.1	0.5	10.0
29.....	17.2		16.3	16.6	10.2	0.3	-1.2	8.8	7.7	-1.1	0.6	11.6
30.....	17.1		16.3	16.6	9.5	0.1	-1.3	9.0	7.5	-1.3	0.5	11.5
31.....	17.0		16.6		9.2		-1.4	9.1		-1.4		11.4
<b>Means.</b>	<b>14.3</b>	<b>17.4</b>	<b>14.4</b>	<b>15.0</b>	<b>14.1</b>	<b>4.5</b>	<b>-0.6</b>	<b>2.6</b>	<b>5.9</b>	<b>1.9</b>	<b>-1.1</b>	<b>5.8</b>
<b>1902</b>												
1.....	11.4	11.3	16.7	23.9	25.3	2.3	0.1	3.2	-0.7	-1.0	-2.1	4.9
2.....	11.5	12.4	16.6	23.8	25.0	1.9	0.2	3.0	-0.8	-0.9	-2.1	5.3
3.....	11.4	12.8	16.6	23.8	24.7	1.8	0.2	3.0	-0.5	-0.8	-2.1	5.8
4.....	11.0	13.2	16.6	23.8	24.4	1.6	0.0	3.2	-0.5	0.0	-2.1	5.9
5.....	10.9	13.4	16.9	23.8	24.1	1.5	0.0	3.6	-0.5	0.6	-2.1	6.0
6.....	10.8	13.7	16.9	23.8	23.7	1.5	-0.1	4.0	-0.3	1.0	-2.1	6.3
7.....	10.5	13.9	16.8	25.1	23.3	1.7	-0.2	4.4	0.0	1.3	-2.1	6.5
8.....	10.3	14.1	16.8	25.1	22.9	2.0	0.0	4.5	0.2	1.5	-2.1	6.9
9.....	10.0	14.3	16.8	25.0	22.4	2.2	0.7	4.7	0.3	1.5	-2.1	7.0
10.....	9.7	14.6	16.7	25.0	21.8	2.4	1.5	4.7	0.0	1.2	-2.1	7.2
11.....	9.3	14.9	16.7	25.1	20.9	2.5	2.4	4.7	-0.2	0.9	-2.1	7.3
12.....	8.9	15.2	16.9	25.3	20.1	2.4	3.4	4.7	-0.5	0.7	-2.1	7.4
13.....	8.4	15.5	17.4	25.5	19.2	2.1	4.0	4.6	-0.7	0.5	-2.1	7.4
14.....	7.9	15.8	17.3	25.6	18.0	1.8	4.5	4.6	-1.1	0.5	-2.1	7.5
15.....	7.3	16.0	17.3	25.8	16.9	1.5	4.9	4.5	-1.2	0.5	-2.1	7.5
16.....	6.5	16.3	17.9	26.0	15.5	1.2	5.0	4.5	-1.3	0.2	-2.1	9.8
17.....	5.7	16.4	17.8	26.2	14.2	0.9	5.0	4.4	-1.4	-0.2	-2.1	9.8
18.....	4.9	16.4	17.7	26.3	13.0	0.5	4.7	4.4	-1.5	-0.5	-2.1	10.2
19.....	4.2	16.4	17.7	26.4	11.9	0.4	4.4	4.3	-1.5	-1.0	-2.1	10.9
20.....	3.5	16.3	17.8	26.5	10.8	0.3	4.0	4.2	-1.5	-1.2	-2.1	11.5
21.....	3.2	16.2	18.0	26.6	9.7	0.0	3.9	4.0	-1.5	-1.3	-2.1	12.0
22.....	3.5	16.1	18.1	26.6	8.5	-0.1	3.5	3.8	-1.5	-1.5	-2.1	12.7
23.....	3.0	16.0	18.1	26.5	7.7	-0.2	3.4	3.3	-1.5	-1.6	-2.1	13.2
24.....	3.5	16.0	19.0	26.5	6.7	-0.3	3.0	2.6	-1.1	-1.6	-2.1	13.8
25.....	4.0	16.2	19.0	26.5	5.8	-0.4	3.0	1.9	-1.1	-1.7	-1.1	14.3
26.....	4.7	16.1	18.9	26.4	5.0	-0.4	2.9	1.3	-1.1	-1.7	0.2	14.8
27.....	5.4	16.2	21.0	26.2	4.4	-0.4	2.9	0.5	-1.0	-1.7	0.8	15.2
28.....	6.4	16.6	24.8	26.0	3.9	-0.4	2.9	-0.1	-1.0	-1.8	1.5	15.4
29.....	7.4		24.8	25.8	3.3	-0.2	2.8	-0.1	-1.0	-2.0	3.0	15.8
30.....	9.4		24.3	25.6	3.0	0.0	2.7	-0.3	-1.0	-2.1	4.4	16.0
31.....	10.3		24.0		2.5		2.6	-0.6		-2.1		16.2
<b>Means.</b>	<b>7.6</b>	<b>15.1</b>	<b>18.4</b>	<b>25.5</b>	<b>14.8</b>	<b>1.0</b>	<b>2.5</b>	<b>3.2</b>	<b>-0.8</b>	<b>-0.5</b>	<b>-1.4</b>	<b>10.0</b>



## DESCRIPTION OF RIVER GAGES, ETC.

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## MISSISSIPPI RIVER SYSTEM—YAZOO RIVER, YAZOO CITY, MISS.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	16.4	17.3	24.1	28.6	22.0	6.7	16.9	-0.6	0.5	-2.2	-2.5	-2.2
2.....	18.0	17.2	24.2	28.6	21.8	6.5	16.8	-0.6	0.4	-2.2	-2.5	-2.1
3.....	18.0	19.0	24.4	28.6	21.4	6.7	16.5	-0.5	0.2	-2.2	-2.5	-2.1
4.....	18.1	19.0	24.6	28.6	21.0	7.4	16.0	-0.5	-0.4	-2.2	-2.5	-2.1
5.....	18.4	18.5	24.7	28.7	20.7	8.3	15.5	-0.5	-0.6	-2.3	-2.5	-2.2
6.....	18.7	18.2	24.8	28.7	20.3	9.2	14.8	-0.4	-0.9	-2.3	-2.5	-2.3
7.....	18.9	19.7	24.9	28.7	20.0	10.0	13.9	-0.3	-1.0	-2.3	-2.5	-2.3
8.....	19.0	22.4	25.2	28.7	19.8	10.9	12.5	-0.2	-1.2	-2.3	-2.5	-2.3
9.....	19.0	21.9	25.3	28.6	19.5	11.5	11.0	-0.1	-1.3	-2.3	-2.5	-2.3
10.....	19.0	21.8	25.4	28.5	19.2	12.4	9.6	-0.1	-1.4	-2.3	-2.5	-2.3
11.....	19.4	22.4	25.8	28.4	19.0	13.0	8.2	1.0	-1.5	-2.3	-2.5	-2.3
12.....	19.4	22.0	25.9	28.3	18.4	13.5	6.9	1.0	-1.6	-2.4	-2.4	-2.4
13.....	19.3	21.9	26.0	28.2	18.5	14.1	6.0	0.9	-1.7	-2.4	-2.3	-2.3
14.....	19.3	21.9	26.2	28.0	18.0	14.7	5.0	0.9	-1.7	-2.4	-2.2	-2.2
15.....	19.3	22.0	26.4	27.8	17.5	15.0	4.0	1.4	-1.7	-2.4	-2.1	-2.2
16.....	19.2	23.1	26.5	27.5	16.9	15.5	3.5	1.6	-1.8	-2.4	-2.0	-2.2
17.....	19.0	23.4	26.6	27.2	16.2	15.8	2.8	1.8	-1.8	-2.4	-1.9	-2.2
18.....	19.0	23.3	26.8	26.9	15.5	16.0	2.4	1.8	-1.8	-2.4	-1.9	-2.1
19.....	18.9	23.3	26.9	26.6	14.5	16.2	2.0	2.0	-1.8	-2.4	-2.1	-2.0
20.....	18.8	23.3	27.0	26.3	13.4	16.3	1.8	2.5	-2.0	-2.4	-2.1	-1.8
21.....	18.6	23.3	27.2	25.9	12.0	16.4	1.5	1.8	-2.0	-2.4	-2.2	-1.6
22.....	18.4	23.4	27.5	25.5	10.8	16.5	1.2	1.5	-2.1	-2.4	-2.3	-1.4
23.....	18.1	23.5	27.6	25.0	9.5	16.6	1.0	1.5	-2.2	-2.4	-2.3	-1.2
24.....	18.0	23.6	27.8	24.7	8.8	16.7	0.8	1.5	-2.2	-2.4	-2.3	-0.2
25.....	17.8	23.6	27.9	24.3	8.2	16.9	0.5	1.5	-2.2	-2.4	-2.3	0.8
26.....	17.6	23.7	28.0	23.9	7.8	17.0	0.5	1.5	-2.2	-2.4	-2.3	1.6
27.....	17.5	23.8	28.2	23.5	7.6	17.1	0.4	1.4	-2.2	-2.4	-2.3	1.9
28.....	17.8	24.1	28.3	23.0	7.5	17.1	0.0	1.3	-2.2	-2.4	-2.3	2.1
29.....	17.6		28.4	22.8	7.4	17.1	-0.2	1.2	-2.2	-2.4	-2.3	2.3
30.....	17.5		28.5	22.5	7.2	17.1	-0.4	1.0	-2.2	-2.4	-2.2	2.5
31.....	17.4		28.6		6.9		-0.5	0.8		-2.4		2.5
<b>Means.</b>	<b>18.4</b>	<b>21.8</b>	<b>26.4</b>	<b>26.8</b>	<b>15.1</b>	<b>13.6</b>	<b>6.2</b>	<b>0.8</b>	<b>-1.5</b>	<b>-2.4</b>	<b>-2.3</b>	<b>-1.1</b>
<b>1904</b>												
1.....	2.5	3.5	0.0	15.4	22.3	5.5	10.7	6.0	-1.9	-2.8	-2.8	-2.5
2.....	2.5	3.7	0.0	15.8	22.0	4.2	10.0	5.0	-1.9	-2.7	-2.8	-2.3
3.....	2.5	3.9	0.0	16.2	21.8	3.0	9.5	4.0	-1.5	-2.6	-2.8	-2.0
4.....	2.5	4.0	0.0	16.5	21.4	2.0	8.8	3.0	-1.3	-2.6	-2.8	-2.0
5.....	1.5	4.0	0.0	16.8	21.0	1.4	8.3	2.5	-1.5	-2.6	-2.8	-2.2
6.....	1.0	4.0	0.8	17.2	20.5	1.0	7.5	2.0	-1.7	-2.6	-2.8	-2.3
7.....	0.9	4.0	1.4	17.6	20.0	1.0	7.0	1.9	-1.7	-2.6	-2.8	-2.4
8.....	0.7	3.6	1.7	18.7	19.6	1.0	6.5	1.9	-1.9	-2.5	-2.8	-2.4
9.....	0.5	3.4	2.0	18.7	19.0	2.0	6.4	2.0	-2.0	-2.6	-2.8	-2.4
10.....	0.3	3.2	2.3	18.9	18.7	4.0	6.3	2.8	-2.0	-2.7	-2.8	-2.3
11.....	0.0	3.0	2.6	19.1	18.3	5.5	6.0	3.0	-2.0	-2.7	-2.8	-2.2
12.....	-0.3	2.5	2.9	19.4	18.0	6.8	6.3	3.4	-2.0	-2.7	-2.8	-2.0
13.....	-0.5	1.5	3.2	19.8	17.8	7.9	5.8	3.7	-2.0	-2.8	-2.8	-1.9
14.....	-0.6	1.0	3.3	20.0	17.7	8.8	5.5	4.1	-2.0	-2.8	-2.8	-1.8
15.....	-0.7	0.7	3.5	20.3	17.5	9.5	5.3	4.3	-2.1	-2.8	-2.8	-1.8
16.....	-0.8	0.5	3.8	20.6	17.4	10.3	5.4	4.2	-2.2	-2.8	-3.0	-1.8
17.....	-0.9	0.2	4.2	20.8	17.4	10.8	5.5	3.8	-2.2	-2.8	-3.0	-1.8
18.....	-1.0	0.0	5.3	21.1	17.3	11.3	6.2	3.5	-2.2	-2.8	-3.0	-1.8
19.....	-1.1	-0.1	6.2	21.4	17.2	11.7	6.8	2.5	-2.2	-2.8	-3.0	-1.9
20.....	-1.1	-0.1	7.0	21.6	17.0	12.0	7.5	2.0	-2.2	-2.8	-3.0	-1.8
21.....	-1.1	-0.1	8.4	21.9	17.0	12.1	8.0	1.6	-2.3	-2.8	-3.0	-2.0
22.....	-1.1	-0.1	9.1	22.0	16.5	12.3	8.3	1.0	-2.4	-2.8	-2.8	-2.1
23.....	-0.1	-0.1	9.9	22.2	16.1	12.5	8.5	0.5	-2.4	-2.8	-2.8	-2.2
24.....	0.0	-0.1	10.8	22.4	15.6	12.4	8.7	-0.1	-2.5	-2.8	-2.8	-2.2
25.....	0.2	-0.1	11.6	22.5	14.9	12.3	8.8	-0.3	-2.6	-2.8	-2.8	-2.2
26.....	1.0	-0.1	12.3	22.6	14.0	12.2	8.8	-0.5	-2.7	-2.8	-3.0	-2.4
27.....	1.8	0.0	14.0	22.6	12.9	12.0	8.8	-0.8	-2.8	-2.8	-3.0	3.8
28.....	2.5	0.0	14.1	22.6	11.5	12.0	8.8	-1.2	-2.8	-2.8	-3.0	4.2
29.....	3.0	0.0	14.3	22.6	10.0	11.5	8.0	-1.4	-2.8	-2.8	-3.0	5.4
30.....	3.4		14.7	22.5	8.5	11.3	7.5	-1.5	-2.8	-2.8	-3.0	7.5
31.....	3.5		15.0		7.0		6.6	-1.8		-2.8		9.0
<b>Means.</b>	<b>0.7</b>	<b>1.6</b>	<b>5.9</b>	<b>20.0</b>	<b>17.0</b>	<b>8.0</b>	<b>7.5</b>	<b>2.0</b>	<b>-2.2</b>	<b>-2.7</b>	<b>-2.9</b>	<b>-0.8</b>

## MISSISSIPPI RIVER SYSTEM—OUACHITA RIVER, CAMDEN, ARK.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	6.3	6.8	16.0	9.4	25.0	7.2	15.5	7.5	7.4	6.3	11.5	20.1
2.....	6.3	6.5	21.5	8.5	23.6	11.7	15.1	8.4	9.0	6.0	14.1	16.4
3.....	6.0	6.4	25.0	7.8	21.7	14.2	15.0	9.2	9.8	5.5	16.0	12.5
4.....	5.8	6.2	26.2	7.2	19.4	14.0	14.0	9.2	8.4	5.1	17.9	11.0
5.....	5.5	6.0	25.3	7.2	17.0	14.8	11.0	8.4	7.3	4.9	16.4	10.0
6.....	5.4	5.9	23.0	7.0	15.0	17.5	9.0	7.5	6.2	4.6	13.2	9.3
7.....	5.3	6.2	20.0	6.7	12.8	18.7	7.7	6.4	5.8	4.5	10.5	8.9
8.....	5.2	6.2	19.0	6.5	11.0	19.5	7.5	5.7	5.2	4.4	9.0	9.1
9.....	5.2	7.2	18.5	6.4	9.6	20.2	7.1	5.2	4.8	5.2	8.0	9.0
10.....	5.2	11.0	18.0	6.3	11.0	20.3	6.9	4.9	4.6	5.4	7.2	8.5
11.....	5.4	17.5	17.0	7.0	12.2	20.5	7.3	4.7	4.4	5.8	6.8	8.1
12.....	5.5	18.2	15.5	9.0	13.2	18.3	7.0	4.5	4.1	5.4	6.6	7.8
13.....	10.5	16.0	13.7	10.5	12.0	15.2	6.7	4.4	3.9	5.2	6.2	7.5
14.....	16.0	13.5	12.0	11.8	10.2	13.3	6.2	4.2	3.8	5.1	5.9	7.1
15.....	16.5	11.2	11.0	11.3	9.0	11.5	5.7	4.0	3.7	5.0	5.7	7.0
16.....	14.8	10.3	9.5	10.4	7.8	10.2	5.4	3.9	3.6	5.1	5.5	6.8
17.....	12.0	9.2	9.1	10.7	7.2	9.5	5.2	3.8	3.5	5.2	5.3	6.6
18.....	10.8	8.3	9.2	14.2	6.8	8.8	5.1	3.7	3.4	5.0	5.1	6.4
19.....	12.0	7.6	9.5	18.2	6.5	8.0	6.3	3.6	3.3	4.7	5.0	6.2
20.....	18.0	7.3	9.6	20.3	6.3	7.7	7.0	3.5	3.3	4.5	4.9	6.5
21.....	21.3	7.1	10.5	19.8	6.2	10.2	7.5	3.4	4.0	4.3	4.8	12.2
22.....	21.0	7.7	11.2	18.0	6.0	14.2	8.3	3.4	4.3	4.3	11.2	20.0
23.....	16.8	10.0	10.5	16.0	5.7	17.4	8.3	3.3	10.9	4.3	17.2	23.5
24.....	13.2	12.8	10.0	15.9	5.5	18.3	7.7	3.2	14.1	6.6	19.1	25.0
25.....	10.9	13.5	9.8	18.3	5.3	18.0	8.5	3.1	15.3	9.6	19.3	23.3
26.....	9.7	14.3	10.0	20.5	5.1	16.1	7.7	3.0	13.7	9.4	21.2	19.0
27.....	9.3	14.6	11.5	23.0	5.0	14.0	7.1	3.0	11.3	8.2	24.0	14.8
28.....	8.4	14.3	12.9	24.5	4.9	13.2	8.2	3.0	8.5	7.4	25.6	13.0
29.....	8.0	.....	12.5	25.4	4.8	15.2	9.0	13.5	7.2	7.1	25.9	11.3
30.....	7.5	.....	11.5	25.5	4.7	14.9	8.8	14.0	6.8	7.3	23.0	10.5
31.....	7.2	.....	10.5	.....	5.0	.....	8.2	10.2	.....	6.9	.....	9.9
<b>Means.</b>	10.0	10.1	14.5	13.4	10.2	14.4	8.4	5.7	6.7	5.8	12.4	11.8
<b>1901</b>												
1.....	12.0	7.3	7.6	17.8	16.2	5.7	3.3	3.5	3.0	3.9	3.1	4.9
2.....	12.2	7.6	7.5	21.3	14.0	6.2	3.2	3.6	3.0	3.8	3.1	4.7
3.....	11.9	7.6	7.6	22.3	12.7	7.5	3.2	3.8	3.0	3.7	3.1	4.4
4.....	10.3	8.1	7.8	19.8	11.1	7.3	3.2	4.2	3.0	3.6	3.1	4.4
5.....	9.6	11.9	7.5	19.2	9.3	6.6	3.2	4.5	3.0	3.5	3.1	4.4
6.....	9.0	16.2	7.3	17.5	8.3	6.2	3.2	4.4	3.0	3.4	3.2	4.4
7.....	8.5	17.4	7.1	15.5	7.3	5.9	3.2	4.2	3.0	3.3	4.8	4.4
8.....	8.2	15.9	6.7	13.2	7.0	6.3	3.2	4.2	3.0	3.3	4.8	4.4
9.....	8.1	14.8	6.8	11.8	6.7	6.1	3.2	4.8	3.0	3.2	4.6	4.5
10.....	8.3	15.3	9.5	10.5	6.4	7.2	3.2	4.7	3.1	3.2	4.5	6.8
11.....	11.7	16.4	19.3	9.8	6.2	8.7	3.2	4.4	3.1	3.1	4.3	16.6
12.....	19.2	17.1	24.2	9.6	6.1	7.6	3.2	4.0	3.4	3.3	4.2	19.0
13.....	21.6	16.5	27.0	13.5	6.0	6.6	3.2	3.9	3.5	3.5	4.1	19.2
14.....	23.2	15.7	28.5	18.0	6.3	6.0	3.1	3.9	3.5	3.6	4.0	15.6
15.....	22.7	14.6	28.9	22.0	6.6	5.5	3.1	4.0	5.0	3.6	3.9	18.5
16.....	21.0	13.6	28.6	22.6	6.9	5.0	3.1	4.2	9.5	3.6	3.8	23.5
17.....	18.8	12.0	26.6	21.2	6.8	4.6	3.1	4.1	13.5	3.7	3.8	26.3
18.....	16.3	11.0	22.8	21.3	6.7	4.5	3.4	3.8	13.7	3.8	3.8	27.5
19.....	13.7	10.3	19.5	24.5	6.8	4.3	3.5	3.6	12.5	3.7	4.2	27.5
20.....	12.0	9.5	16.7	27.8	8.1	4.2	3.4	3.5	9.5	3.5	4.3	26.2
21.....	10.3	9.1	16.7	30.4	9.1	4.1	3.3	3.5	7.5	3.5	4.3	22.7
22.....	9.3	8.5	17.5	32.0	10.0	4.0	3.2	3.4	6.3	3.4	4.2	18.2
23.....	8.6	8.1	16.5	33.8	10.1	3.9	3.2	3.3	5.9	3.3	4.3	14.2
24.....	8.3	7.8	16.2	33.7	8.9	3.8	3.2	3.2	5.7	3.2	4.4	11.8
25.....	8.1	7.6	16.5	32.8	7.9	3.8	3.1	3.1	5.3	3.2	4.4	9.8
26.....	8.0	7.7	18.8	30.5	6.8	3.7	3.1	3.0	5.0	3.2	4.9	8.6
27.....	7.8	7.8	19.2	28.2	6.3	3.6	3.1	3.0	4.7	3.1	5.7	8.1
28.....	7.6	7.6	18.1	25.5	6.0	3.5	3.2	3.0	4.4	3.1	5.5	8.0
29.....	7.3	.....	16.2	22.2	5.9	3.4	3.2	3.0	4.2	3.1	5.2	7.5
30.....	7.1	.....	14.3	18.8	5.8	3.3	3.2	3.0	4.0	3.1	5.0	7.1
31.....	7.2	.....	13.8	.....	5.7	.....	3.3	3.0	.....	3.1	.....	6.9
<b>Means.</b>	11.9	11.5	16.2	21.6	8.0	5.3	3.2	3.7	5.3	3.4	4.2	12.6

## MISSISSIPPI RIVER SYSTEM—OUACHITA RIVER, CAMDEN, ARK.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	6.5	28.2	26.5	34.8	8.9	10.1	21.0	21.6	4.5	7.3	4.5	36.2
2.....	6.4	29.9	26.6	34.9	8.5	15.5	23.5	26.9	4.4	7.0	4.5	35.2
3.....	6.2	30.5	26.3	34.1	8.0	17.5	24.0	29.7	4.3	7.1	4.5	33.9
4.....	6.0	30.0	24.9	32.9	7.6	17.0	21.2	31.5	4.3	7.8	4.5	32.8
5.....	5.8	31.1	22.1	30.9	7.4	14.5	18.5	32.0	4.2	12.5	4.5	32.0
6.....	5.6	30.0	19.8	28.5	7.1	11.3	13.8	31.6	4.2	14.5	5.1	31.9
7.....	5.5	28.2	18.8	27.0	7.2	9.0	11.4	29.4	4.8	14.8	12.0	32.1
8.....	5.5	26.0	17.7	28.0	7.5	7.3	9.0	26.0	4.6	13.2	14.3	32.3
9.....	5.5	23.5	16.2	29.9	8.4	6.9	7.8	22.0	4.4	11.0	14.2	32.3
10.....	5.4	20.5	14.5	31.5	8.5	6.4	7.0	17.5	4.3	9.2	12.4	32.1
11.....	5.4	18.0	13.2	32.9	8.0	6.3	6.3	15.3	4.2	8.2	10.9	31.2
12.....	5.3	16.1	12.3	33.9	7.2	6.0	6.0	13.8	4.3	7.6	9.2	30.0
13.....	5.3	14.5	12.4	33.6	6.9	5.9	5.8	12.3	4.5	7.1	8.0	28.1
14.....	5.2	13.3	16.0	32.8	6.4	5.7	5.6	13.0	4.8	6.7	7.2	26.3
15.....	5.2	12.2	19.2	31.6	6.0	5.4	5.4	14.0	5.3	6.5	7.0	25.1
16.....	5.1	11.0	20.2	30.7	5.9	5.3	5.2	12.9	6.0	6.3	7.0	27.0
17.....	5.1	10.3	18.9	29.3	5.9	5.2	5.0	10.7	6.0	6.1	6.9	29.6
18.....	5.0	9.6	16.7	27.5	5.8	5.0	4.8	9.1	5.3	6.0	17.0	31.8
19.....	5.0	9.2	14.3	25.2	6.0	4.8	4.7	8.0	5.0	5.9	22.0	33.9
20.....	4.9	9.0	12.5	23.0	6.6	4.6	4.4	7.5	4.8	5.8	24.5	35.6
21.....	4.9	9.8	10.9	20.7	7.0	4.5	4.2	7.1	4.6	5.7	25.0	35.9
22.....	4.9	13.5	11.0	18.5	7.4	6.9	4.0	6.8	4.6	5.5	24.5	35.1
23.....	5.2	21.0	14.2	16.4	7.1	6.5	4.0	6.4	4.5	5.4	23.8	34.1
24.....	5.3	23.4	16.4	14.7	6.5	6.3	4.0	6.2	6.3	5.1	23.0	32.6
25.....	5.3	23.3	18.0	12.9	6.0	6.2	4.0	6.0	13.9	4.9	24.0	31.2
26.....	5.5	23.4	18.4	12.0	5.8	6.0	4.0	5.8	16.4	4.8	26.3	29.4
27.....	6.8	25.3	19.8	10.7	5.6	5.6	4.0	5.6	15.0	4.7	28.7	27.0
28.....	15.8	26.5	24.4	10.1	5.4	6.3	4.0	5.3	12.8	4.6	31.0	24.8
29.....	21.5	.....	28.2	9.7	5.3	10.5	4.0	5.1	10.8	4.5	33.4	22.5
30.....	24.0	.....	31.2	9.2	5.2	18.1	4.9	4.9	8.5	4.5	35.9	20.2
31.....	26.0	.....	33.4	.....	6.6	.....	9.1	4.7	.....	4.5	.....	18.6
<b>Means.</b>	<b>7.6</b>	<b>20.3</b>	<b>19.2</b>	<b>24.9</b>	<b>6.8</b>	<b>8.2</b>	<b>8.4</b>	<b>14.5</b>	<b>6.4</b>	<b>7.3</b>	<b>15.9</b>	<b>30.3</b>
<b>1906</b>												
1.....	17.1	15.7	29.6	16.2	6.8	16.2	6.6	5.2	13.2	3.6	3.1	2.5
2.....	17.2	14.0	30.4	15.5	6.7	18.7	5.9	6.8	12.7	3.8	3.0	2.5
3.....	18.5	13.6	31.0	14.4	6.7	19.4	5.5	7.7	8.9	3.8	2.9	2.4
4.....	20.2	16.8	31.4	13.6	6.7	17.7	4.9	7.3	7.7	4.2	2.9	2.4
5.....	20.6	21.4	30.8	12.8	6.6	15.0	4.7	6.5	6.7	6.2	2.9	2.4
6.....	20.6	25.9	29.9	12.1	6.5	12.7	4.5	5.9	6.1	12.0	2.9	2.4
7.....	19.4	28.0	29.8	11.6	7.0	11.0	4.3	5.2	5.7	18.7	2.9	2.4
8.....	18.0	29.1	30.4	11.0	8.3	10.0	4.2	4.7	5.4	21.9	2.9	2.3
9.....	16.4	29.5	31.2	10.5	16.0	9.5	4.1	4.4	5.0	19.7	2.9	2.3
10.....	14.6	29.7	32.6	10.5	23.5	8.8	4.0	3.9	4.7	15.1	2.9	2.3
11.....	13.5	29.2	34.3	10.6	28.0	9.0	3.9	4.2	4.4	11.7	2.9	2.3
12.....	13.2	28.9	35.2	10.6	30.8	9.0	3.9	7.7	4.2	8.7	2.9	2.3
13.....	14.3	28.7	36.4	10.2	33.0	8.5	4.1	12.9	3.9	7.5	2.9	2.3
14.....	15.2	29.3	39.4	9.9	31.4	7.3	4.2	13.5	3.8	6.7	2.9	2.3
15.....	14.9	29.6	39.3	10.3	31.0	6.8	4.5	13.4	3.7	6.4	2.8	2.8
16.....	14.0	30.3	38.0	10.1	29.4	6.6	4.5	14.7	3.6	6.0	2.7	2.9
17.....	13.1	31.5	36.3	9.7	28.4	6.3	4.2	15.2	3.5	5.7	2.7	2.9
18.....	12.4	33.7	34.8	9.2	26.4	6.0	4.0	14.2	3.4	5.6	2.7	3.2
19.....	12.0	37.7	33.0	8.7	23.9	5.8	3.9	14.2	4.7	5.4	2.7	3.2
20.....	11.5	39.6	31.3	8.4	20.9	5.6	3.9	16.8	9.2	5.1	2.7	3.3
21.....	11.1	39.1	29.6	8.2	20.0	5.5	3.8	18.4	8.1	4.9	2.7	3.3
22.....	10.8	37.7	29.0	8.3	22.9	5.4	3.7	16.5	6.8	4.7	2.7	4.1
23.....	10.5	36.0	29.2	8.1	24.3	5.3	3.6	12.2	6.1	4.4	2.7	4.9
24.....	10.1	34.6	29.3	7.8	24.3	5.2	3.6	9.7	5.1	4.2	2.7	5.2
25.....	9.8	33.0	28.7	7.5	23.9	5.1	3.6	7.9	4.7	3.9	2.6	5.2
26.....	9.5	31.2	27.0	7.2	22.4	5.0	3.7	7.0	4.4	3.7	2.6	5.7
27.....	9.5	29.5	24.8	7.1	19.3	5.7	4.7	6.5	4.1	3.5	2.6	6.5
28.....	10.2	29.0	22.2	7.0	15.1	6.7	5.0	6.0	3.9	3.4	2.6	8.8
29.....	13.0	.....	20.1	6.9	12.7	7.0	5.0	5.5	3.7	3.3	2.5	8.5
30.....	16.0	.....	18.6	6.8	11.2	7.0	4.7	5.8	3.6	3.2	2.5	7.6
31.....	16.4	.....	17.3	.....	11.9	.....	4.5	7.7	.....	3.1	.....	6.8
<b>Means.</b>	<b>14.3</b>	<b>29.0</b>	<b>27.1</b>	<b>10.0</b>	<b>18.9</b>	<b>8.9</b>	<b>4.4</b>	<b>9.3</b>	<b>5.7</b>	<b>7.1</b>	<b>2.8</b>	<b>3.8</b>

## MISSISSIPPI RIVER SYSTEM—OUACHITA RIVER, CAMDEN, ARK.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	6.5	8.2	21.0	29.0	20.7	4.5	8.7	6.2	2.8	4.3	3.1	4.1
2.....	6.2	8.1	17.3	27.4	17.7	4.3	8.6	5.9	2.7	4.1	3.1	4.0
3.....	6.3	7.7	16.0	26.3	14.8	4.2	8.2	5.7	2.6	4.0	3.1	4.0
4.....	7.0	7.3	15.1	25.3	13.0	4.1	7.6	5.7	2.6	3.9	3.1	4.0
5.....	7.1	6.9	13.7	23.7	11.9	4.7	6.7	6.7	2.5	3.8	3.1	4.1
6.....	6.8	6.6	12.5	21.9	10.7	13.5	7.3	7.7	2.4	3.8	3.2	4.2
7.....	6.4	6.5	11.1	21.0	10.1	22.1	7.4	8.2	2.7	3.7	3.2	4.2
8.....	5.9	6.5	10.6	21.4	13.5	26.1	7.1	8.2	3.4	3.7	3.3	4.1
9.....	5.5	6.4	10.2	22.8	17.7	29.4	6.8	9.7	3.7	3.7	3.4	4.1
10.....	5.5	6.3	9.7	24.4	20.4	31.6	6.7	10.2	3.6	3.7	3.4	4.3
11.....	5.4	6.2	9.3	24.9	20.7	33.0	6.6	9.7	3.2	4.0	3.4	4.4
12.....	5.2	6.0	8.3	25.3	20.0	33.6	6.5	8.0	3.1	4.0	3.4	4.4
13.....	5.1	5.9	7.7	24.8	15.6	33.4	7.0	7.0	2.8	4.2	3.4	4.3
14.....	4.9	5.7	8.7	22.9	12.6	32.8	7.1	6.4	2.6	4.6	3.4	4.2
15.....	4.7	5.6	15.0	19.9	10.9	31.9	7.0	5.7	2.4	4.5	3.4	4.2
16.....	4.6	5.5	16.8	17.1	9.0	29.8	6.9	5.4	2.3	4.3	3.3	4.2
17.....	4.4	5.4	16.2	16.2	8.7	27.2	6.7	5.3	2.2	4.2	3.3	4.1
18.....	4.3	5.2	14.7	16.7	7.9	23.9	6.6	5.1	2.1	4.1	3.3	4.1
19.....	4.0	5.5	17.7	19.7	7.7	19.9	6.5	4.8	2.0	4.0	3.3	4.1
20.....	3.9	12.2	23.4	18.4	7.6	17.0	6.2	4.4	2.0	3.9	3.3	4.1
21.....	3.9	19.9	25.9	15.7	7.4	14.7	5.9	4.2	2.0	3.8	3.3	4.0
22.....	4.7	23.6	26.7	13.6	6.9	12.7	5.7	4.0	2.0	3.7	3.3	4.0
23.....	8.3	25.2	26.7	12.0	6.6	11.3	7.2	3.8	3.5	3.6	3.4	4.0
24.....	17.2	26.4	26.9	13.7	6.2	10.0	9.6	3.7	4.7	3.5	3.7	4.2
25.....	20.9	26.9	27.9	18.6	6.0	9.9	10.1	3.7	6.5	3.4	4.0	5.0
26.....	22.0	27.1	28.4	19.9	5.7	10.9	10.2	3.5	6.7	3.3	4.2	6.7
27.....	20.4	26.9	29.4	23.3	5.5	10.9	9.2	3.3	5.7	3.3	4.3	11.0
28.....	17.7	25.6	30.3	25.1	5.2	10.7	8.0	3.2	4.7	3.2	4.4	15.9
29.....	14.2	23.4	30.9	25.2	5.1	10.3	7.1	3.1	3.8	3.2	4.4	21.5
30.....	11.6	-----	31.0	24.1	4.9	8.8	6.9	3.0	4.7	3.2	4.2	22.5
31.....	9.7	-----	30.4	-----	4.7	-----	6.5	2.9	-----	3.2	-----	22.2
Means.	8.4	12.4	19.0	21.3	10.8	17.9	7.4	5.6	3.3	3.8	3.5	6.6

## MISSISSIPPI RIVER SYSTEM—OUACHITA RIVER, MONROE, LA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	5.3	7.4	13.0	23.4	30.9	8.5	23.0	7.5	4.3	7.2	4.9	12.5
2.....	4.8	6.5	14.0	23.2	31.0	7.8	23.4	7.6	6.0	6.3	4.7	12.8
3.....	4.5	5.8	14.9	23.0	31.0	7.0	23.6	7.6	7.0	5.4	4.7	13.2
4.....	4.2	5.4	15.0	22.8	30.9	9.0	23.8	7.5	6.5	4.4	4.9	13.5
5.....	3.8	5.0	16.0	22.3	30.8	11.5	23.8	7.5	5.8	3.8	7.0	13.6
6.....	3.6	4.6	16.4	21.8	30.7	13.8	23.7	7.4	5.2	3.2	8.4	13.8
7.....	3.3	4.4	16.8	21.0	30.5	15.5	23.6	7.3	5.1	3.0	9.3	14.0
8.....	3.0	4.4	17.6	20.0	30.3	16.6	23.2	7.3	4.8	2.6	9.5	14.0
9.....	2.8	4.4	18.1	19.0	30.1	17.2	22.7	6.7	4.2	2.2	9.3	13.5
10.....	3.1	4.5	18.8	17.9	29.9	17.8	22.6	5.8	3.5	1.8	8.5	12.6
11.....	3.4	5.2	19.3	16.8	29.7	18.1	21.6	5.5	3.0	1.6	7.4	11.2
12.....	3.9	5.8	19.6	15.7	29.2	18.4	21.0	5.0	2.8	1.6	6.5	10.0
13.....	4.1	8.0	19.9	15.0	28.8	18.5	20.3	4.2	2.4	1.6	6.5	9.5
14.....	4.4	9.8	20.3	15.0	28.4	18.5	19.2	3.7	2.0	1.7	4.8	8.3
15.....	5.0	10.8	20.6	15.4	28.0	18.3	16.7	3.2	1.7	1.7	4.1	7.5
16.....	5.4	11.4	21.0	16.3	27.4	18.0	15.7	3.0	1.4	1.8	3.8	6.8
17.....	8.4	11.4	21.3	22.5	26.9	17.9	13.9	2.8	1.0	1.8	3.4	6.2
18.....	9.5	10.9	21.6	25.4	26.4	17.7	12.3	2.5	0.7	1.7	3.0	5.6
19.....	10.1	10.5	21.9	26.3	25.8	17.5	10.5	2.4	0.6	1.7	2.9	5.0
20.....	10.2	9.6	22.4	26.7	25.1	17.0	9.2	2.2	0.6	1.7	2.9	5.0
21.....	10.2	9.3	22.6	27.3	24.3	16.5	8.0	2.0	0.6	1.7	2.8	5.0
22.....	10.3	8.5	22.7	27.7	23.5	16.1	7.3	2.0	0.5	1.9	2.7	5.2
23.....	11.0	8.2	22.8	28.4	22.6	15.6	7.2	1.8	0.5	1.8	2.6	6.0
24.....	11.5	8.1	22.8	28.9	21.6	15.5	7.4	1.5	0.5	1.8	2.8	8.5
25.....	12.0	8.0	23.0	29.3	20.5	15.4	7.5	1.4	0.9	1.7	6.1	10.2
26.....	12.1	9.3	23.3	29.7	18.9	15.5	7.5	1.2	3.6	2.1	7.9	12.0
27.....	12.3	10.1	23.3	30.0	16.5	19.2	7.5	1.1	6.5	2.5	9.5	12.6
28.....	11.7	11.6	23.4	30.4	14.6	21.0	7.5	1.0	8.0	3.6	10.5	13.0
29.....	10.5	-----	23.5	30.6	12.6	21.9	7.4	1.0	8.4	4.9	11.4	13.5
30.....	9.6	-----	23.5	30.8	11.1	22.4	7.3	0.9	8.4	5.2	12.0	13.8
31.....	8.4	-----	23.5	-----	9.8	-----	7.1	0.9	-----	4.9	-----	14.0
Means.	7.2	7.8	20.1	23.4	25.1	16.1	15.3	3.9	3.5	2.9	6.1	10.4

## MISSISSIPPI RIVER SYSTEM—OUACHITA RIVER, MONROE, LA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	14.0	14.8	14.5	22.8	23.2	11.1	1.4	1.0	1.5	1.4	0.4	3.1
2.....	14.0	13.5	14.2	22.6	23.5	10.1	1.3	2.1	1.3	1.2	0.4	3.3
3.....	13.9	12.8	13.8	22.3	23.7	9.2	1.7	2.3	1.1	1.0	0.4	3.5
4.....	13.7	12.7	13.5	21.8	23.9	8.3	1.4	2.0	1.0	1.0	0.4	3.5
5.....	13.5	13.2	13.3	21.6	24.2	7.7	1.4	1.6	0.9	0.8	0.4	3.7
6.....	13.5	13.6	13.1	21.4	24.5	7.5	1.3	1.3	0.8	0.7	0.4	3.4
7.....	13.4	14.3	12.7	21.2	24.6	7.5	1.3	1.0	0.7	0.6	0.4	3.0
8.....	13.0	15.0	12.0	20.9	24.6	7.3	1.3	0.8	0.7	0.6	0.4	3.0
9.....	12.7	16.4	11.5	20.5	24.6	6.6	1.2	0.6	0.5	0.6	0.4	3.3
10.....	12.5	16.9	12.3	20.3	24.5	6.3	1.1	0.6	0.5	0.5	0.4	3.7
11.....	13.0	17.4	13.5	20.2	24.3	5.8	1.1	0.6	0.5	0.4	0.4	3.5
12.....	14.2	17.7	14.8	20.0	23.8	5.4	1.1	1.0	0.4	0.4	0.8	3.5
13.....	15.5	17.9	16.0	19.8	23.3	5.3	0.0	1.3	0.4	0.4	0.9	5.2
14.....	16.3	18.1	16.8	19.4	22.5	5.4	0.0	1.4	0.4	0.6	1.2	8.0
15.....	17.0	18.3	17.5	19.0	21.8	5.4	0.0	1.6	0.6	2.4	0.8	10.0
16.....	17.4	18.4	17.8	18.6	21.2	5.2	0.0	1.6	1.0	3.8	0.6	11.5
17.....	17.5	18.6	18.3	18.1	20.4	5.0	0.0	1.4	1.5	4.4	0.6	12.6
18.....	17.5	18.8	18.6	18.0	19.5	4.3	0.0	1.2	2.0	4.6	0.6	13.3
19.....	17.5	18.9	18.9	18.5	18.6	3.8	0.0	1.0	3.6	3.8	0.8	13.9
20.....	17.5	18.9	19.5	19.2	17.5	3.4	0.0	0.9	7.8	2.9	1.0	14.3
21.....	17.6	18.8	20.1	19.5	17.1	3.1	0.0	1.5	7.8	2.6	1.0	14.5
22.....	17.9	18.4	20.6	19.8	16.7	2.7	0.1	2.2	7.8	2.2	1.0	14.8
23.....	18.0	18.2	21.0	20.0	16.4	2.4	0.1	3.5	7.6	1.9	1.1	15.0
24.....	18.1	17.7	21.5	20.3	15.7	2.1	0.0	3.7	6.8	1.4	1.3	15.1
25.....	18.1	17.3	22.1	20.6	15.6	2.0	0.0	3.5	6.1	1.2	1.4	15.2
26.....	18.0	16.6	22.3	21.0	15.6	1.9	0.0	3.3	4.6	1.0	1.6	15.2
27.....	17.6	15.8	22.5	21.5	15.5	1.9	0.0	2.4	4.0	0.8	1.8	15.3
28.....	17.0	14.9	22.7	22.0	14.9	1.8	0.0	2.4	3.3	0.6	2.2	15.3
29.....	16.2	.....	22.8	22.5	14.0	1.8	0.0	2.3	2.5	0.5	2.6	15.4
30.....	15.7	.....	22.8	22.8	13.0	1.6	0.0	2.0	1.9	0.5	2.8	14.6
31.....	15.2	.....	22.8	.....	12.2	.....	0.0	1.7	.....	0.4	.....	13.7
<b>Means.</b>	<b>15.7</b>	<b>16.6</b>	<b>17.5</b>	<b>20.5</b>	<b>20.0</b>	<b>5.1</b>	<b>0.5</b>	<b>1.7</b>	<b>2.7</b>	<b>1.4</b>	<b>1.0</b>	<b>9.5</b>
<b>1902</b>												
1.....	12.5	11.0	21.0	29.6	34.8	8.2	4.4	3.4	3.3	9.0	2.8	16.8
2.....	11.0	12.5	21.1	30.2	34.5	8.2	7.5	4.5	3.0	8.8	2.7	17.3
3.....	9.8	13.3	21.3	30.6	34.0	8.5	10.2	8.0	2.8	7.0	2.7	18.0
4.....	8.4	14.0	21.6	31.0	33.6	10.0	12.0	10.9	2.4	9.0	2.7	18.7
5.....	7.4	14.6	22.0	31.3	33.2	11.5	13.0	12.8	2.3	9.6	2.7	19.3
6.....	6.4	15.0	22.3	31.4	32.8	12.2	13.8	14.0	2.2	10.3	2.6	20.0
7.....	5.8	15.5	22.6	32.0	32.3	13.0	14.3	14.7	2.0	11.7	2.6	20.5
8.....	5.2	16.0	22.8	32.1	31.8	13.2	14.7	15.3	1.8	12.7	2.7	21.0
9.....	4.8	16.3	23.0	32.4	31.1	12.8	14.9	15.7	1.6	13.6	2.9	21.5
10.....	4.4	16.8	23.2	32.5	30.6	11.8	14.8	15.8	1.4	14.0	4.0	22.0
11.....	4.1	17.2	23.2	33.0	30.0	10.4	14.0	15.9	1.3	14.1	6.0	22.7
12.....	4.0	17.8	23.3	33.2	29.3	8.8	13.3	16.0	1.3	13.7	6.9	23.3
13.....	3.9	18.4	23.4	33.4	28.7	7.7	12.0	16.1	1.4	12.8	7.2	23.8
14.....	3.7	18.8	23.5	33.7	28.0	6.0	10.8	16.3	1.8	11.5	6.7	24.4
15.....	3.6	19.0	23.5	33.9	27.4	5.0	9.4	16.5	2.2	9.8	6.2	24.9
16.....	3.5	19.8	23.8	34.0	26.6	4.3	7.5	16.8	2.3	8.6	5.5	25.6
17.....	3.4	20.0	24.0	34.3	25.9	3.8	6.0	16.9	2.3	6.8	4.9	26.0
18.....	3.1	20.2	24.1	34.5	25.2	3.4	4.9	17.0	2.6	5.3	4.4	26.5
19.....	3.0	20.6	24.1	34.9	24.3	3.0	4.0	16.6	2.6	4.9	3.8	26.9
20.....	3.0	21.0	24.0	34.9	23.7	2.7	3.5	16.0	2.6	4.5	4.0	27.3
21.....	3.0	21.3	23.9	34.8	23.0	2.6	3.0	15.3	2.7	3.0	6.3	27.8
22.....	2.9	21.3	23.9	34.8	22.1	2.4	3.0	14.0	2.7	3.0	8.4	28.1
23.....	2.9	21.0	23.8	34.9	21.5	2.2	2.8	12.5	2.7	3.0	10.3	28.4
24.....	2.8	20.6	24.1	34.9	20.1	2.2	2.7	10.8	2.6	3.0	11.4	29.0
25.....	2.8	20.6	24.1	35.0	18.8	2.0	2.7	9.2	2.6	3.0	12.5	29.4
26.....	2.8	20.6	23.8	35.0	17.0	1.9	2.5	7.8	2.9	3.0	13.2	29.7
27.....	2.8	20.7	23.7	35.1	15.9	1.7	2.3	6.4	3.3	3.0	14.0	30.1
28.....	3.2	20.9	26.0	35.1	12.6	2.8	2.2	5.4	5.8	2.9	14.9	30.3
29.....	3.4	.....	27.1	35.0	10.5	2.8	2.2	4.5	7.6	2.9	15.5	30.5
30.....	5.3	.....	28.0	34.9	8.5	2.8	2.5	4.0	8.8	2.8	16.2	31.0
31.....	8.3	.....	28.8	.....	8.2	.....	2.5	3.5	.....	2.8	.....	31.4
<b>Means.</b>	<b>4.9</b>	<b>18.0</b>	<b>23.7</b>	<b>33.3</b>	<b>25.0</b>	<b>6.3</b>	<b>7.5</b>	<b>12.0</b>	<b>2.8</b>	<b>7.4</b>	<b>6.9</b>	<b>24.9</b>

## MISSISSIPPI RIVER SYSTEM—OUACHITA RIVER, MONROE, LA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	31.7	28.3	37.6	44.1	34.3	28.6	10.7	3.3	4.7	2.4	2.8	1.4
2.....	32.0	28.0	38.0	43.9	34.0	28.3	11.2	3.1	3.9	2.3	2.2	1.4
3.....	32.3	27.8	38.4	43.6	33.6	28.1	11.5	3.0	3.8	2.2	1.8	1.4
4.....	32.6	27.6	38.8	43.4	33.2	27.8	11.6	3.0	5.4	2.1	1.8	1.4
5.....	32.9	27.3	39.2	43.1	32.8	27.2	11.9	3.5	6.4	2.1	1.7	1.4
6.....	33.0	27.0	39.5	42.9	32.4	26.8	12.1	3.8	6.8	2.0	1.7	1.4
7.....	33.2	28.2	39.8	42.6	32.0	26.4	12.1	3.9	5.8	2.0	1.7	1.4
8.....	33.3	28.8	40.1	42.3	31.8	25.9	12.2	4.2	5.1	2.1	1.7	1.4
9.....	33.4	29.4	40.3	41.9	31.6	25.5	12.2	4.0	4.4	3.1	1.7	1.4
10.....	33.5	30.0	40.5	41.6	31.3	25.0	12.4	3.8	4.0	7.1	1.7	1.4
11.....	33.6	30.9	40.8	41.4	31.0	24.5	12.5	4.4	3.5	8.9	1.7	1.4
12.....	33.7	31.5	41.0	41.0	30.8	24.0	12.6	4.4	3.3	10.0	1.7	1.4
13.....	33.5	32.2	41.2	40.6	30.6	23.4	12.8	4.9	3.1	10.1	1.6	1.4
14.....	33.4	32.6	41.4	40.2	30.6	23.0	12.8	4.8	3.0	10.3	1.6	1.8
15.....	33.2	32.9	41.7	39.9	30.6	22.8	12.8	5.4	2.8	8.8	1.6	2.1
16.....	33.0	33.3	41.8	39.6	30.4	21.1	12.6	7.1	2.7	7.6	1.5	2.2
17.....	32.8	33.6	42.0	39.2	30.3	19.9	12.3	8.3	2.5	6.5	1.5	2.2
18.....	32.6	34.0	42.2	38.9	30.2	18.5	12.0	9.6	2.5	5.6	1.5	2.2
19.....	32.4	34.2	42.4	38.5	30.0	17.2	11.4	10.4	2.5	5.0	1.5	2.4
20.....	32.2	34.5	42.8	38.2	30.0	16.6	10.9	11.2	2.3	4.5	1.5	2.7
21.....	31.8	34.7	43.3	37.9	29.9	14.1	10.2	11.5	2.2	3.5	1.5	2.7
22.....	31.5	34.9	43.7	37.6	29.9	13.0	9.4	11.8	2.1	3.1	1.5	2.9
23.....	31.3	35.2	44.0	37.2	29.9	12.2	8.5	12.0	2.8	3.0	1.5	2.8
24.....	30.9	35.5	44.2	36.8	29.9	11.5	7.8	12.2	3.7	2.8	1.5	4.0
25.....	30.5	35.8	44.4	36.5	29.8	11.1	7.0	12.3	3.8	2.7	1.5	3.7
26.....	29.0	36.0	44.5	36.1	29.7	11.0	6.0	11.8	3.7	2.6	1.4	3.5
27.....	28.7	36.1	44.5	35.8	29.6	10.9	4.9	10.8	3.4	2.5	1.4	3.9
28.....	28.7	37.2	44.5	35.4	29.4	10.8	4.1	9.5	3.1	2.4	1.4	4.0
29.....	28.7	.....	44.5	35.0	29.2	10.7	3.4	8.5	2.8	2.6	1.4	4.2
30.....	28.7	.....	44.4	34.7	29.0	10.7	3.2	6.6	2.5	3.1	1.4	4.6
31.....	28.5	.....	44.2	.....	28.8	.....	3.1	5.5	.....	2.8	.....	5.1
<b>Means.</b>	<b>31.8</b>	<b>32.1</b>	<b>41.8</b>	<b>39.3</b>	<b>30.9</b>	<b>19.9</b>	<b>9.9</b>	<b>7.1</b>	<b>3.6</b>	<b>4.4</b>	<b>1.6</b>	<b>2.4</b>
<b>1904</b>												
1.....	5.5	11.5	14.5	21.2	27.3	13.5	22.8	8.5	1.6	1.5	0.3	1.6
2.....	5.5	11.2	14.8	22.0	27.0	12.5	22.5	7.9	1.6	1.4	0.5	1.5
3.....	5.5	11.6	15.0	22.8	26.7	11.5	22.0	7.0	6.0	1.8	0.7	1.2
4.....	5.2	11.2	15.2	23.2	26.5	10.7	21.6	6.2	5.6	1.7	0.7	1.0
5.....	4.8	10.6	15.4	23.9	26.3	9.5	21.2	6.0	4.9	1.9	0.3	1.1
6.....	4.6	10.2	15.9	24.5	26.1	8.7	20.7	6.3	4.4	2.0	0.3	1.3
7.....	4.5	9.5	16.4	25.2	26.1	7.9	20.2	7.8	3.9	1.5	0.4	1.5
8.....	4.6	9.0	16.7	26.0	26.1	7.5	19.5	8.5	3.4	1.3	0.5	1.5
9.....	4.6	7.4	17.0	26.8	26.1	9.9	18.8	8.8	2.8	1.1	0.5	1.6
10.....	4.6	6.1	17.3	27.3	26.0	11.8	17.8	9.0	2.5	1.0	0.4	1.6
11.....	4.5	5.8	17.5	27.8	25.8	13.0	17.0	8.9	2.2	1.0	0.4	1.6
12.....	4.4	5.6	17.5	28.2	25.7	14.0	15.9	8.8	2.0	1.0	0.4	1.5
13.....	4.4	5.2	17.5	28.5	25.5	14.8	15.0	8.5	1.5	0.5	0.4	1.5
14.....	4.0	5.2	17.3	28.9	25.2	15.5	14.0	8.2	1.3	0.7	0.4	1.5
15.....	3.5	5.0	17.0	29.5	25.2	16.0	13.2	7.5	1.2	0.7	0.6	1.5
16.....	3.4	4.6	16.3	29.5	25.0	16.5	12.9	6.6	1.0	0.5	0.7	1.4
17.....	3.2	4.5	15.8	29.5	24.8	17.0	11.7	5.7	0.6	0.5	0.8	1.5
18.....	3.2	4.1	15.5	29.5	24.8	17.4	11.4	5.1	0.4	0.4	0.8	1.5
19.....	3.1	4.0	15.4	29.5	24.5	17.8	11.0	4.5	0.6	0.4	0.5	1.5
20.....	3.0	3.8	15.3	29.5	24.2	18.5	10.4	3.9	0.7	0.4	0.5	1.5
21.....	3.0	3.6	15.5	29.4	23.8	19.5	9.8	3.5	0.7	0.8	1.2	1.6
22.....	2.7	4.2	16.0	29.2	23.3	20.0	9.2	3.2	0.9	0.8	1.3	1.6
23.....	2.5	6.8	16.5	29.0	23.0	20.6	8.9	3.0	0.8	0.7	1.3	1.7
24.....	2.5	9.7	17.0	29.0	22.7	21.3	8.7	2.7	0.9	0.5	1.8	2.0
25.....	2.5	11.6	17.4	28.6	21.8	21.8	8.6	2.5	0.9	1.1	2.0	6.0
26.....	6.1	12.8	17.8	28.5	21.1	22.5	8.4	2.3	1.0	1.2	2.1	6.8
27.....	8.8	13.5	18.8	28.2	20.1	22.5	8.0	2.2	1.3	1.2	1.9	15.8
28.....	10.0	14.0	19.3	28.0	18.9	22.6	9.3	2.0	1.3	1.3	1.8	19.9
29.....	10.9	14.3	19.5	27.8	17.3	22.8	9.6	1.9	1.2	1.3	1.7	22.0
30.....	11.5	.....	20.1	27.5	16.2	23.0	9.5	1.7	1.4	1.3	1.6	23.0
31.....	11.5	.....	20.6	.....	14.8	.....	8.9	1.7	.....	0.3	.....	23.3
<b>M</b>	<b>5.1</b>	<b>8.2</b>	<b>16.8</b>	<b>27.3</b>	<b>23.8</b>	<b>16.0</b>	<b>14.1</b>	<b>5.5</b>	<b>2.0</b>	<b>1.0</b>	<b>0.9</b>	<b>4.9</b>

## MISSISSIPPI RIVER SYSTEM—LITTLE RIVER, WHITECLIFFS, ARK.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1											0.6	0.6
2											0.6	0.6
3											0.6	0.6
4											0.6	0.6
5											0.6	0.6
6											0.6	0.6
7											0.6	0.6
8											0.6	0.6
9											0.6	0.6
10											0.6	0.6
11											0.6	0.6
12											0.6	0.6
13											0.6	0.6
14											0.6	0.6
15										0.7	0.6	0.6
16										0.7	0.6	0.6
17										0.7	0.6	0.6
18										0.7	0.6	0.6
19										0.6	0.6	0.6
20										0.6	0.6	0.6
21										0.6	0.6	0.6
22										0.6	0.6	0.6
23										0.6	0.7	0.6
24										0.6	0.7	0.6
25										0.6	0.6	0.6
26										0.6	0.6	0.6
27										0.6	0.6	0.9
28										0.6	0.6	1.1
29										0.6	0.6	1.1
30										0.6	0.6	1.1
31										0.6	0.6	1.0
Means.										0.6	0.6	0.7

## MISSISSIPPI RIVER SYSTEM—RED RIVER, ARTHUR CITY, TEX.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1			5.3	5.4	17.0	17.4	6.4	10.2	5.1	13.0	17.0	.....
2			5.3	5.2	15.8	16.0	6.3	9.0	5.1	18.0	18.0	.....
3			6.0	5.0	18.0	13.5	6.1	9.0	5.0	14.0	16.0	.....
4			5.9	5.1	17.0	12.5	6.0	8.7	5.0	11.5	.....	.....
5			5.8	4.9	14.5	12.0	5.9	8.3	5.0	10.6	.....	.....
6			6.7	4.9	13.0	11.3	5.9	8.0	5.0	10.0	.....	.....
7		5.5	5.5	5.3	12.4	12.0	5.8	7.6	4.9	9.5	.....	.....
8		5.7	5.3	4.9	11.5	12.0	5.7	7.6	7.0	9.0	.....	.....
9		12.0	5.3	4.8	11.0	11.0	5.7	7.3	7.5	9.0	.....	.....
10		12.0	5.3	5.0	10.5	10.5	5.8	7.0	8.4	9.0	.....	.....
11		11.0	5.3	5.5	10.0	10.5	10.0	6.8	7.3	9.0	.....	.....
12		10.8	5.3	10.5	9.7	10.0	9.5	6.7	6.7	8.5	.....	.....
13		8.8	5.3	11.5	9.0	9.5	9.0	6.6	6.4	8.0	.....	.....
14		7.0	5.1	12.2	8.5	9.0	8.5	7.0	6.1	7.6	.....	.....
15		6.6	5.1	12.8	8.2	8.5	8.0	7.1	6.0	7.4	.....	.....
16		6.4	5.1	11.2	8.1	8.2	8.0	6.9	6.2	7.1	.....	.....
17		6.3	10.0	11.0	7.8	11.0	8.5	6.8	8.5	7.0	.....	.....
18		6.1	9.4	10.0	8.5	10.0	9.0	7.0	8.8	6.8	.....	.....
19		5.9	7.9	9.3	11.0	9.0	11.2	6.6	9.5	6.6	.....	.....
20		5.9	7.0	8.6	11.5	9.0	10.5	6.4	10.0	6.5	.....	.....
21		5.6	6.9	8.3	12.7	8.7	9.6	6.2	9.0	6.9	.....	.....
22		5.6	6.8	7.8	11.8	8.5	9.0	6.1	9.0	6.8	.....	.....
23		5.5	5.1	7.6	10.7	8.2	9.1	5.9	8.7	7.1	.....	.....
24		5.4	6.0	7.4	10.0	7.8	9.0	5.7	8.0	7.1	.....	.....
25		5.4	5.9	7.5	9.5	7.5	13.0	5.5	8.0	8.3	.....	.....
26		5.4	5.8	7.6	9.3	7.2	12.0	5.4	8.5	8.3	.....	.....
27		5.4	5.7	8.0	9.4	7.0	11.0	5.3	11.0	8.0	.....	.....
28		5.3	5.6	8.0	9.0	6.8	10.0	5.3	12.0	7.9	.....	.....
29			5.6	16.5	8.8	6.6	9.7	5.2	10.8	7.6	.....	.....
30			5.5	17.5	9.5	6.5	9.5	5.1	10.4	7.9	.....	.....
31			5.4	.....	13.7	.....	11.0	5.1	.....	8.1	.....	.....
Means.		7.0	6.0	8.3	11.2	9.9	8.5	6.8	7.6	8.8	.....	.....

## MISSISSIPPI RIVER SYSTEM—RED RIVER, ARTHUR CITY, TEX.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....		4.6	4.4	5.5	4.5	12.7	5.6	6.8	4.0	4.0	3.0	3.6
2.....		4.6	4.4	5.5	4.4	15.6	5.5	6.2	4.0	3.8	3.0	3.8
3.....		4.9	4.4	5.0	4.3	19.4	5.4	6.0	3.9	3.6	3.3	3.7
4.....		5.6	4.3	4.6	4.2	18.5	5.3	6.7	3.9	3.5	3.2	3.5
5.....		6.0	4.3	4.6	4.2	13.8	5.2	6.3	3.7	3.5	3.2	3.4
6.....		5.2	4.3	4.3	4.1	12.4	5.2	6.3	3.7	3.5	3.1	3.3
7.....		4.8	4.3	4.2	4.0	13.4	5.1	7.2	3.7	3.5	3.1	3.2
8.....		4.7	4.3	4.2	7.1	13.5	5.0	5.8	3.7	3.4	3.0	3.2
9.....		4.7	4.2	4.1	7.3	11.8	5.0	5.6	3.7	3.4	3.0	3.1
10.....		4.7	8.7	4.0	6.3	11.0	4.9	5.2	3.6	3.4	3.7	3.0
11.....		4.7	9.5	5.5	5.5	10.7	4.8	4.9	3.6	3.4	3.5	3.0
12.....		4.8	8.7	5.0	5.0	10.0	4.7	4.8	3.6	3.6	3.4	3.0
13.....		4.8	7.3	4.8	4.7	11.0	4.7	4.6	4.8	3.5	3.3	3.0
14.....		4.7	6.3	4.4	5.9	11.2	4.6	4.6	5.6	3.5	3.2	2.9
15.....	4.7	4.7	5.7	4.3	7.3	9.9	4.6	4.5	6.1	3.5	3.1	3.8
16.....	4.7	4.8	5.2	4.3	7.4	8.8	4.5	4.5	6.0	3.4	3.1	4.0
17.....	4.6	4.7	4.9	4.6	8.8	8.3	4.4	4.5	6.2	3.4	3.0	3.8
18.....	4.6	4.7	4.6	7.5	16.0	7.9	4.4	4.4	6.4	3.4	2.9	4.2
19.....	4.6	4.6	4.5	8.8	22.5	7.4	4.4	4.4	6.1	3.4	2.9	4.4
20.....	4.6	4.6	4.5	7.3	25.6	7.4	4.3	4.3	5.9	3.3	3.8	4.2
21.....	4.6	4.6	4.4	7.0	24.8	7.1	4.3	4.6	5.5	3.3	3.6	4.2
22.....	4.6	4.5	4.3	7.0	22.9	7.3	4.3	5.6	5.1	3.3	3.6	3.8
23.....	4.6	4.6	4.3	6.7	21.3	7.0	4.3	5.2	4.8	3.3	3.5	3.7
24.....	4.6	4.5	6.5	6.1	17.4	6.5	4.3	4.6	4.6	3.3	3.5	3.5
25.....	4.6	4.5	5.6	5.7	15.7	6.4	4.3	4.5	4.6	3.3	3.4	3.5
26.....	4.6	4.5	5.0	5.5	13.9	6.2	4.6	4.5	4.5	3.3	3.4	3.3
27.....	4.6	4.4	4.8	5.2	12.5	6.1	4.6	4.5	4.3	3.2	3.3	3.2
28.....	4.6	4.4	4.6	5.0	12.2	6.0	6.1	4.3	4.2	3.2	3.2	3.1
29.....	4.6	.....	4.5	4.8	11.8	5.9	9.3	4.3	4.2	3.1	3.1	3.0
30.....	4.6	.....	6.5	4.6	13.2	5.7	7.6	4.1	4.1	3.1	3.0	2.9
31.....	4.6	.....	6.4	.....	12.0	.....	7.8	4.0	.....	3.0	.....	2.8
<b>Means.</b>	4.6	4.7	5.3	5.3	10.9	10.0	5.1	5.2	4.6	3.4	3.2	3.5
<b>1902</b>												
1.....	3.5	2.8	2.6	4.7	5.5	27.3	6.4	6.2	4.1	9.2	4.6	16.1
2.....	3.3	2.8	2.5	5.1	5.2	26.8	6.4	6.1	4.0	9.3	4.5	14.9
3.....	3.2	2.8	2.5	4.8	5.1	22.6	6.1	6.5	4.0	10.8	4.4	14.5
4.....	3.1	2.8	2.5	4.8	6.0	20.2	5.9	6.4	4.0	13.4	4.3	14.0
5.....	3.1	2.7	2.5	4.7	5.4	17.8	5.8	6.2	4.0	13.2	11.5	12.8
6.....	3.0	2.7	2.5	4.6	5.4	16.2	5.7	6.1	4.3	12.1	15.8	11.1
7.....	3.0	2.7	2.5	5.2	9.8	14.9	5.5	5.8	4.4	10.6	14.5	10.1
8.....	2.9	2.7	2.5	5.5	9.2	13.9	5.4	5.5	4.5	8.5	13.0	9.4
9.....	2.9	2.7	2.5	6.1	14.6	12.9	5.4	5.4	4.5	7.4	10.8	9.0
10.....	2.8	2.7	2.5	5.5	12.7	12.3	5.3	5.4	6.2	7.1	10.2	8.3
11.....	2.8	2.6	2.5	5.9	11.2	11.6	5.3	5.3	7.1	6.8	9.6	7.8
12.....	2.8	2.6	4.3	5.4	10.0	10.6	5.2	5.4	6.5	6.5	9.2	8.1
13.....	2.8	2.6	9.0	7.1	9.2	10.4	5.2	5.9	5.9	6.4	9.0	7.8
14.....	2.8	2.6	7.7	8.9	9.2	10.4	5.9	5.4	5.5	6.2	10.9	8.1
15.....	2.8	2.6	7.4	9.4	9.0	9.9	5.8	5.9	5.2	6.0	12.0	9.4
16.....	2.8	2.6	8.0	10.8	8.9	9.8	5.6	5.4	5.0	5.9	12.7	16.5
17.....	2.8	2.6	7.1	11.0	8.7	9.4	5.7	5.4	4.9	5.8	14.4	15.2
18.....	2.8	2.6	6.3	11.3	8.1	8.2	5.7	5.2	4.9	5.7	15.1	16.3
19.....	2.7	2.6	6.1	10.3	10.2	7.7	5.4	4.9	5.4	5.5	14.5	15.6
20.....	2.7	2.6	6.1	9.9	15.5	7.4	5.6	4.6	6.5	5.3	11.7	14.5
21.....	2.7	2.6	6.2	9.8	12.8	7.1	5.9	4.6	6.2	5.2	10.1	13.8
22.....	2.7	2.6	5.9	8.3	13.0	7.0	5.9	4.6	5.5	5.2	15.0	12.6
23.....	2.7	2.6	5.4	7.9	11.6	6.9	6.0	4.5	6.8	5.1	17.0	10.9
24.....	2.7	2.6	5.6	7.7	9.7	7.2	6.1	4.5	17.2	5.1	17.3	9.8
25.....	2.7	2.6	5.9	7.5	9.2	7.0	6.9	4.3	20.5	5.0	23.4	8.6
26.....	2.6	2.6	6.3	7.2	9.8	6.4	9.0	4.2	19.2	5.0	25.6	7.5
27.....	2.6	2.6	6.1	6.8	11.3	6.2	9.5	4.2	15.9	4.9	25.1	7.5
28.....	3.4	2.6	5.3	6.4	10.8	6.7	8.1	4.2	13.2	4.8	23.8	7.4
29.....	2.9	.....	5.7	6.1	10.2	7.0	7.4	4.1	11.8	4.8	20.3	7.3
30.....	2.8	.....	7.0	5.8	18.8	6.7	6.8	4.1	10.1	4.7	17.8	7.1
31.....	2.8	.....	6.4	.....	24.9	.....	6.5	4.1	.....	4.7	.....	7.0
<b>Means.</b>	2.9	2.6	5.0	7.2	10.4	11.6	6.2	5.2	7.6	7.0	13.6	10.9



## MISSISSIPPI RIVER SYSTEM—RED RIVER, ARTHUR CITY, TEX.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	7.0	6.1	20.5	9.2	6.5	12.0	8.5	8.5	5.2	14.0	7.2	4.5
2.....	6.9	6.0	21.0	8.9	6.4	11.8	8.0	7.3	5.2	11.0	8.7	4.5
3.....	8.7	5.9	19.5	8.4	6.2	10.4	8.3	6.4	5.2	8.2	8.3	4.5
4.....	9.6	6.4	18.1	8.2	6.0	10.0	27.5	6.0	5.0	8.2	7.8	4.8
5.....	9.2	5.9	13.7	8.2	5.9	10.5	28.8	6.0	5.0	8.0	7.0	4.8
6.....	8.4	5.9	13.2	8.2	5.9	9.8	26.5	6.0	5.0	8.0	5.7	4.5
7.....	7.5	5.9	13.0	8.2	5.9	9.8	22.5	5.8	5.0	13.2	5.7	4.3
8.....	7.1	5.6	13.4	8.2	5.9	10.3	20.0	5.8	5.0	12.0	5.3	4.2
9.....	6.7	5.8	13.0	7.9	5.9	10.5	19.0	5.8	5.0	10.2	5.0	4.2
10.....	6.8	5.6	16.0	7.8	5.9	10.5	18.2	5.8	5.0	8.2	5.0	4.2
11.....	6.6	9.4	19.0	7.5	5.9	10.5	15.1	5.8	5.0	6.9	5.0	4.2
12.....	6.3	12.2	14.8	7.4	6.5	10.4	14.0	8.8	5.0	6.6	5.0	4.2
13.....	6.3	12.7	14.5	7.4	6.7	9.4	13.2	9.0	5.0	6.4	5.0	4.2
14.....	6.4	12.9	14.0	7.2	6.7	9.4	12.1	7.0	5.0	6.1	5.0	4.2
15.....	6.3	15.5	13.0	7.1	6.7	9.4	8.2	7.0	6.2	6.0	4.8	4.2
16.....	6.3	19.5	11.8	7.0	6.5	10.4	7.5	6.5	6.7	6.0	4.6	4.2
17.....	6.1	18.3	10.4	7.0	7.2	10.6	7.0	6.0	6.2	6.0	4.6	4.2
18.....	6.0	16.5	9.8	6.8	8.5	10.8	7.0	6.0	6.2	6.0	4.6	4.2
19.....	5.9	15.5	9.5	6.5	8.6	9.5	6.8	6.0	5.9	6.0	4.6	4.2
20.....	5.9	14.6	14.4	6.4	10.9	8.7	8.8	6.0	5.2	6.0	4.6	4.2
21.....	5.9	13.8	13.5	6.8	11.4	8.5	6.5	6.0	5.2	6.0	4.5	4.2
22.....	5.9	13.6	13.6	6.9	11.4	8.0	6.5	6.0	5.2	6.0	4.5	4.2
23.....	5.9	13.6	15.8	6.8	11.0	8.0	6.5	6.0	5.2	6.0	4.5	4.2
24.....	5.9	12.3	15.0	6.6	10.5	8.0	6.5	6.0	5.2	6.0	4.5	4.2
25.....	5.9	11.9	14.9	6.6	9.0	8.6	6.2	6.0	5.2	6.0	4.5	4.2
26.....	5.9	12.1	13.0	6.4	9.0	11.5	6.0	6.0	5.2	6.0	4.5	4.2
27.....	5.9	15.1	11.0	6.4	8.7	10.3	6.0	6.0	5.0	6.0	4.5	4.5
28.....	5.9	16.4	10.5	6.3	7.5	8.5	5.8	6.0	5.0	6.0	4.5	4.5
29.....	5.7	.....	10.1	6.2	8.5	9.0	6.2	6.0	5.0	5.0	4.5	4.5
30.....	5.7	.....	9.9	6.2	12.0	8.0	7.4	5.8	5.0	4.8	4.5	4.5
31.....	6.0	.....	9.4	.....	12.0	.....	9.0	5.5	.....	4.8	.....	4.5
<b>Means.</b>	<b>6.6</b>	<b>11.2</b>	<b>13.8</b>	<b>7.3</b>	<b>7.9</b>	<b>9.8</b>	<b>11.6</b>	<b>6.3</b>	<b>5.3</b>	<b>7.3</b>	<b>5.3</b>	<b>4.3</b>
<b>1904</b>												
1.....	4.5	5.2	4.5	7.0	6.0	6.6	17.0	5.2	6.7	5.8	6.6	4.3
2.....	4.5	5.2	4.3	6.5	5.8	6.0	16.6	5.2	6.4	5.8	6.6	4.3
3.....	4.4	5.0	4.3	5.8	5.8	7.8	10.7	6.0	6.1	5.8	6.8	4.3
4.....	4.3	4.8	4.3	5.0	5.8	7.2	10.0	6.3	6.1	5.8	6.8	4.3
5.....	4.3	4.8	4.3	5.0	5.4	14.8	10.0	6.6	6.1	5.8	6.2	4.3
6.....	4.3	4.8	4.3	5.0	5.4	23.0	10.0	6.6	6.1	5.8	5.2	4.3
7.....	4.3	5.0	4.3	5.2	7.0	21.6	9.0	6.0	6.0	6.0	5.6	4.3
8.....	4.2	5.0	4.3	7.3	14.2	21.6	8.8	5.8	5.8	6.0	5.0	4.3
9.....	4.2	5.0	4.3	7.1	13.2	22.0	8.8	5.6	5.8	6.0	5.0	4.3
10.....	4.2	5.0	4.3	7.4	12.3	21.0	8.4	5.6	5.8	6.0	5.0	4.3
11.....	4.2	5.0	4.1	7.5	11.4	19.8	8.0	5.4	5.8	6.0	5.0	4.3
12.....	4.2	5.0	4.0	7.5	11.0	22.0	8.0	9.6	5.8	6.0	5.0	4.3
13.....	4.2	4.3	4.0	7.0	11.0	24.0	7.7	9.6	5.8	6.0	5.0	4.3
14.....	4.2	4.3	4.0	6.5	11.0	23.3	7.5	9.6	5.6	5.8	5.0	4.3
15.....	4.2	4.3	4.0	6.5	8.5	19.0	7.5	9.6	6.0	5.8	5.0	4.3
16.....	4.2	4.3	4.0	6.5	7.0	17.5	7.2	8.5	5.9	5.8	5.0	4.3
17.....	4.4	4.3	4.0	5.0	7.5	16.0	7.0	8.5	6.0	5.8	5.0	4.3
18.....	4.4	4.3	4.5	5.0	8.9	12.2	7.0	8.1	5.1	5.8	5.0	4.3
19.....	4.0	4.3	4.5	5.0	8.1	11.0	7.0	8.1	5.8	5.8	5.0	4.3
20.....	4.0	4.8	5.0	5.0	8.0	10.2	6.8	7.0	5.8	5.8	5.0	4.3
21.....	4.0	5.0	6.0	5.0	7.2	10.2	6.8	7.0	5.8	5.8	5.0	4.3
22.....	4.0	5.0	6.0	5.0	7.2	9.2	6.8	6.9	5.9	5.8	5.0	4.3
23.....	4.8	5.0	8.5	5.0	7.2	8.3	6.8	6.4	5.7	5.8	5.0	4.3
24.....	8.2	5.0	8.2	6.4	7.2	8.3	6.0	6.3	5.7	5.8	5.0	4.3
25.....	8.5	5.0	8.0	7.8	7.2	8.3	5.5	6.2	5.7	5.8	5.0	4.3
26.....	7.8	4.8	10.8	7.8	7.2	8.0	5.4	6.1	5.7	6.1	4.3	4.3
27.....	7.8	4.8	14.0	7.7	7.0	8.0	5.4	6.4	5.7	6.6	4.3	4.3
28.....	7.1	4.6	11.0	7.7	7.0	7.5	5.4	6.3	5.9	6.6	4.3	4.3
29.....	5.8	4.5	11.0	6.0	6.6	17.3	5.4	6.2	5.9	6.6	4.3	4.3
30.....	5.8	.....	11.0	6.0	6.6	18.0	5.2	6.1	5.9	6.6	4.3	4.3
31.....	5.4	.....	10.0	.....	6.6	.....	5.2	6.7	.....	6.6	.....	4.3
<b>Means.</b>	<b>5.0</b>	<b>4.8</b>	<b>6.1</b>	<b>6.2</b>	<b>8.1</b>	<b>14.3</b>	<b>8.0</b>	<b>6.9</b>	<b>5.9</b>	<b>6.0</b>	<b>5.2</b>	<b>4.3</b>

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSISSIPPI RIVER SYSTEM RED RIVER, KIOMACHE, TEX.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1												0.8
2												0.8
3												0.8
4												0.8
5												0.8
6												0.8
7												0.8
8												0.8
9												0.8
10											1.0	0.8
11											1.0	0.8
12											0.9	0.8
13											0.9	0.8
14											0.8	0.8
15											0.8	0.8
16											0.8	0.8
17											0.8	0.8
18											0.8	0.8
19											0.9	0.8
20											1.0	0.8
21											0.9	0.8
22											0.9	0.8
23											0.9	0.9
24											0.9	1.0
25											0.8	0.8
26											0.8	0.8
27											0.8	0.8
28											0.8	0.8
29											0.8	0.8
30											0.8	0.8
31											0.8	0.8
Month											0.9	0.8

## MISSISSIPPI RIVER SYSTEM RED RIVER, FULTON, ARK.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	10.0	9.0	8.0	7.3	18.0	11.5	8.4	11.4	4.8	12.0	9.0	14.0
2	9.5	8.8	8.5	7.0	20.0	16.2	8.7	11.8	4.6	11.4	16.0	12.0
3	9.0	8.5	8.0	6.5	21.0	19.5	8.8	12.4	4.5	15.0	21.0	11.0
4	8.5	8.0	7.5	6.0	21.0	19.7	8.8	11.6	4.3	17.8	23.0	10.0
5	8.0	7.5	7.0	5.8	22.8	19.0	8.3	10.7	4.2	16.0	22.8	8.5
6	8.0	7.5	7.0	5.8	21.8	18.4	8.0	10.1	4.0	15.0	21.5	8.4
7	8.0	7.5	7.0	5.8	20.4	17.7	7.9	9.4	4.0	12.5	20.0	7.5
8	8.0	7.5	7.0	5.8	18.5	16.6	7.9	8.8	3.9	11.0	18.0	7.0
9	8.0	7.5	7.0	5.8	17.1	16.1	7.6	8.2	3.9	10.5	15.8	7.0
10	8.0	7.5	7.0	5.8	16.5	15.7	7.6	8.2	3.9	10.0	14.0	6.9
11	8.0	7.5	7.0	5.8	15.5	14.6	7.6	8.0	3.9	10.0	13.0	6.6
12	8.0	7.5	7.0	5.8	14.9	13.6	7.4	7.7	3.7	9.9	12.0	6.0
13	8.0	7.5	7.0	5.8	14.0	12.6	7.3	7.0	3.7	9.9	11.0	5.9
14	8.0	7.5	7.0	5.8	13.9	12.5	7.3	6.9	3.7	9.9	10.0	5.6
15	8.0	7.5	7.0	5.8	13.0	11.6	7.3	6.9	3.7	9.9	9.0	5.1
16	8.0	7.5	7.0	5.8	12.6	11.6	7.3	6.9	3.7	9.9	8.0	4.8
17	8.0	7.5	7.0	5.8	12.6	11.6	7.3	6.9	3.7	9.9	7.0	4.5
18	8.0	7.5	7.0	5.8	12.6	11.6	7.3	6.9	3.7	9.9	6.0	4.2
19	8.0	7.5	7.0	5.8	12.6	11.6	7.3	6.9	3.7	9.9	5.0	3.9
20	8.0	7.5	7.0	5.8	12.6	11.6	7.3	6.9	3.7	9.9	4.0	3.6
21	8.0	7.5	7.0	5.8	12.6	11.6	7.3	6.9	3.7	9.9	3.0	3.3
22	8.0	7.5	7.0	5.8	12.6	11.6	7.3	6.9	3.7	9.9	2.0	3.0
23	8.0	7.5	7.0	5.8	12.6	11.6	7.3	6.9	3.7	9.9	1.0	2.7
24	8.0	7.5	7.0	5.8	12.6	11.6	7.3	6.9	3.7	9.9	0.0	2.4
25	8.0	7.5	7.0	5.8	12.6	11.6	7.3	6.9	3.7	9.9	0.0	2.1
26	8.0	7.5	7.0	5.8	12.6	11.6	7.3	6.9	3.7	9.9	0.0	1.8
27	8.0	7.5	7.0	5.8	12.6	11.6	7.3	6.9	3.7	9.9	0.0	1.5
28	8.0	7.5	7.0	5.8	12.6	11.6	7.3	6.9	3.7	9.9	0.0	1.2
29	8.0	7.5	7.0	5.8	12.6	11.6	7.3	6.9	3.7	9.9	0.0	0.9
30	8.0	7.5	7.0	5.8	12.6	11.6	7.3	6.9	3.7	9.9	0.0	0.6
31	8.0	7.5	7.0	5.8	12.6	11.6	7.3	6.9	3.7	9.9	0.0	0.3
Month	8.0	7.5	7.0	5.8	12.6	11.6	7.3	6.9	3.7	9.9	0.0	0.0

## MISSISSIPPI RIVER SYSTEM—RED RIVER, FULTON, ARK.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	6.9	4.3	5.4	14.0	7.5	19.0	6.8	8.0	4.5	4.5	2.6	3.1
2.....	6.7	4.2	5.4	15.4	7.4	17.9	6.7	9.0	4.4	4.3	2.6	3.1
3.....	6.3	4.2	5.2	15.8	7.0	17.5	6.6	10.0	4.3	4.0	2.6	3.0
4.....	6.0	4.3	5.0	15.5	6.7	19.7	6.5	10.5	4.3	4.0	2.7	3.1
5.....	5.8	4.4	4.8	15.0	6.2	22.6	6.3	9.9	4.2	3.9	2.7	3.2
6.....	5.6	7.5	4.6	14.0	6.0	22.4	6.0	9.0	4.1	3.8	2.7	3.3
7.....	5.4	10.0	4.6	13.5	5.5	20.4	6.0	8.5	4.0	3.7	2.8	3.3
8.....	5.2	11.0	4.5	12.5	5.4	18.8	5.9	9.6	4.0	3.6	3.8	3.4
9.....	5.0	11.0	4.5	10.5	5.2	17.0	5.6	10.5	3.9	3.5	3.8	3.5
10.....	5.0	10.0	8.0	9.2	5.8	16.9	5.4	10.0	3.8	3.4	3.7	3.8
11.....	5.9	9.5	11.0	8.5	6.0	15.9	5.2	9.0	3.8	3.2	3.6	6.0
12.....	6.4	9.6	15.0	9.0	6.8	14.9	5.1	8.2	3.7	3.3	3.5	7.0
13.....	7.0	9.0	18.2	10.5	7.5	13.5	5.0	7.3	3.7	3.4	3.5	7.0
14.....	7.6	9.0	19.5	11.9	7.0	13.0	5.0	7.1	7.0	3.5	3.4	7.1
15.....	7.4	8.8	20.0	13.0	6.3	12.0	4.9	6.0	7.5	3.5	3.4	8.0
16.....	7.4	8.5	19.5	13.0	6.2	12.0	4.9	5.5	8.0	3.3	3.3	9.0
17.....	7.3	8.2	19.0	12.5	5.8	13.4	4.8	5.0	10.0	3.2	3.3	11.0
18.....	7.1	8.0	18.0	13.5	5.9	12.5	4.7	5.0	9.8	3.2	3.3	10.5
19.....	6.7	8.0	17.2	15.0	13.1	11.4	4.6	4.8	9.6	3.1	3.2	9.0
20.....	6.4	7.9	16.0	17.2	20.1	10.5	4.5	4.7	8.8	3.1	3.2	9.0
21.....	6.0	7.5	15.0	18.5	23.9	10.0	4.5	4.6	7.0	3.0	3.2	7.0
22.....	5.8	7.0	12.0	19.0	25.7	9.5	4.4	4.6	6.5	3.0	3.1	6.5
23.....	5.5	6.9	10.0	18.8	26.8	9.2	4.3	4.5	6.0	2.9	3.1	6.0
24.....	5.4	6.5	9.2	18.0	27.0	9.0	4.3	4.6	6.0	2.9	3.1	6.0
25.....	5.0	6.0	10.2	16.8	27.7	8.7	4.5	4.7	5.9	2.8	3.3	5.7
26.....	5.0	6.0	13.0	15.0	27.3	8.5	4.6	4.8	5.8	2.8	3.3	5.5
27.....	4.9	5.9	14.9	13.0	26.3	8.2	4.6	5.0	5.7	2.8	3.2	5.4
28.....	4.8	5.5	15.2	12.0	24.8	8.0	5.0	4.8	5.2	2.7	3.2	5.4
29.....	4.5	-----	14.5	10.0	23.0	7.4	5.0	4.8	5.0	2.7	3.2	5.2
30.....	4.5	-----	13.6	8.5	21.5	7.0	6.0	4.7	4.8	2.7	3.1	5.1
31.....	4.3	-----	12.0	-----	20.0	-----	5.5	4.6	-----	2.7	-----	4.7
<b>Means.</b>	<b>5.9</b>	<b>7.5</b>	<b>11.8</b>	<b>13.6</b>	<b>13.6</b>	<b>13.6</b>	<b>5.3</b>	<b>6.8</b>	<b>5.7</b>	<b>3.3</b>	<b>3.2</b>	<b>5.8</b>
<b>1902.</b>												
1.....	4.5	10.4	10.5	19.2	9.0	24.5	11.5	16.0	4.6	17.4	6.3	32.2
2.....	4.2	10.0	10.5	18.8	-----	26.4	11.7	18.2	4.6	15.4	6.2	31.9
3.....	4.1	9.5	10.4	18.0	8.0	28.1	11.0	16.0	4.5	-----	6.1	31.5
4.....	4.0	9.4	9.0	16.6	7.8	28.9	10.5	14.5	4.6	14.5	6.4	31.0
5.....	4.0	9.0	8.5	15.0	7.5	29.3	9.0	12.0	4.5	17.2	7.0	30.3
6.....	3.9	7.5	8.0	12.0	7.2	29.4	8.2	10.0	4.5	19.5	7.1	29.7
7.....	3.9	7.0	7.0	11.6	7.0	28.8	8.0	9.0	4.5	19.5	-----	28.8
8.....	3.8	6.8	6.6	-----	7.0	28.0	7.8	8.0	4.5	18.1	14.2	28.0
9.....	3.7	6.3	6.3	17.4	7.2	26.7	7.5	8.0	4.4	16.5	16.5	27.0
10.....	3.6	5.5	6.0	19.5	9.5	25.0	7.4	-----	4.4	15.0	17.6	26.0
11.....	3.6	5.5	6.0	20.4	15.2	23.2	7.0	-----	4.5	12.0	-----	25.0
12.....	3.5	5.4	6.1	20.4	17.0	21.8	6.5	7.0	5.0	11.8	13.2	23.5
13.....	3.4	5.4	7.0	19.9	14.5	20.0	6.0	7.0	5.5	11.0	12.5	23.0
14.....	3.4	5.1	10.0	20.0	12.0	18.5	6.0	10.0	6.5	10.0	11.0	22.0
15.....	3.3	5.0	13.5	21.0	10.7	17.0	5.8	10.5	7.5	9.8	11.0	21.5
16.....	3.2	5.0	16.8	21.8	10.0	16.0	5.9	9.5	8.0	9.8	12.0	21.5
17.....	3.2	4.8	16.4	21.8	9.0	14.5	5.8	9.2	7.5	9.0	19.5	24.5
18.....	3.3	4.7	14.5	21.3	9.0	13.0	5.7	9.0	7.0	8.5	22.0	28.4
19.....	3.2	4.2	13.0	20.8	9.1	12.0	6.5	7.0	6.5	8.5	23.8	27.3
20.....	3.2	4.0	11.0	20.4	9.0	11.6	6.4	7.0	6.3	8.0	24.8	27.7
21.....	3.1	4.0	10.0	19.4	15.0	11.0	6.2	6.5	6.0	7.5	24.5	27.6
22.....	3.0	8.0	10.0	18.5	17.6	10.5	5.9	6.0	5.9	7.0	23.8	27.1
23.....	3.0	9.0	12.0	17.0	16.0	9.5	5.8	5.8	6.3	-----	25.2	26.4
24.....	2.9	9.5	13.5	16.0	15.0	9.0	5.6	5.8	8.5	-----	27.3	25.6
25.....	2.9	10.2	14.5	15.0	14.2	8.5	5.8	5.7	12.0	-----	28.6	24.5
26.....	3.1	11.0	15.0	11.4	12.4	8.5	6.5	5.4	19.6	-----	29.6	23.3
27.....	3.2	11.1	15.8	11.0	10.8	8.0	7.0	5.2	22.5	-----	30.6	22.0
28.....	4.0	10.7	16.0	10.0	10.0	8.1	8.9	5.0	22.5	-----	31.5	20.8
29.....	9.0	-----	17.0	9.5	10.0	10.0	9.5	5.0	21.4	-----	32.1	19.4
30.....	10.5	-----	17.8	9.5	12.0	11.0	11.0	4.9	19.5	-----	32.1	18.0
31.....	10.5	-----	17.8	-----	18.5	-----	15.0	4.7	-----	6.4	-----	16.0
<b>Means.</b>	<b>4.1</b>	<b>7.3</b>	<b>11.5</b>	<b>17.0</b>	<b>11.2</b>	<b>17.9</b>	<b>7.8</b>	<b>8.5</b>	<b>8.5</b>	<b>12.4</b>	<b>18.7</b>	<b>25.5</b>

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSISSIPPI RIVER SYSTEM—RED RIVER, FULTON, ARK.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	15.0	8.7	28.0	21.0	9.5	16.8	11.4	8.8	7.4	6.8	6.0	4.1
2.....	13.5	9.8	29.0	19.9	9.2	19.5	10.5	8.9	7.3	8.7	5.8	4.0
3.....	12.0	9.9	29.4	18.5	9.2	20.1	9.8	12.0	7.1	12.0	5.6	4.0
4.....	12.0	12.0	29.5	17.0	9.0	19.9	9.6	12.7	7.0	15.0	5.6	4.0
5.....	12.0	12.5	29.6	15.5	8.8	19.0	18.3	11.0	7.0	14.6	9.0	3.9
6.....	15.4	14.5	29.1	14.5	8.7	17.5	24.2	10.0	6.9	13.0	10.8	3.9
7.....	16.0	16.0	28.5	13.8	8.7	16.0	26.0	9.5	6.8	13.0	10.0	4.0
8.....	15.8	17.2	27.5	13.4	8.9	14.5	27.0	9.0	6.8	14.5	9.0	4.0
9.....	15.0	17.8	27.1	13.0	9.5	13.5	27.5	9.0	6.7	17.4	9.0	4.0
10.....		17.8	27.2	12.8	10.3	13.0	28.0	8.9	6.5	17.0	8.0	4.0
11.....	13.0	16.9	29.0	12.0	10.7	12.8	28.0	8.2	6.4	15.8	7.0	3.9
12.....	12.0	17.2	30.0	11.8	10.1	13.2	27.6	10.0	6.3	14.0	6.0	3.9
13.....	11.5	20.4	30.8	11.8	10.0	13.2	26.3	10.9	6.2	12.8	5.8	4.0
14.....	11.0	23.3	31.2	11.6	11.3	12.8	25.0	11.0	6.3	11.0	5.5	4.1
15.....	11.0	24.5	31.0	11.4	11.9	12.1	23.4	11.5	6.2	10.0	5.5	4.0
16.....	10.5	26.3	30.5	11.4	11.8	11.1	21.8	12.5	6.0	9.0	5.2	4.0
17.....		28.4	29.5	11.3	11.2	10.4	19.8	12.8	6.0	8.5	5.0	4.0
18.....	10.5	29.5	28.6	11.1	11.0	10.4	17.1	12.5	6.5	8.0	5.0	4.1
19.....	10.0	30.2	27.4	10.9	10.5	11.3	14.5	11.8	6.8	7.9	4.8	4.5
20.....	9.9	30.5	26.5	10.4	10.4	11.4	12.5	12.7	7.8	7.8	4.8	6.0
21.....	9.8	30.5	26.6	10.3	14.7	10.7	11.0	12.0	8.0	7.7	4.7	6.5
22.....	9.6	29.3	28.0	10.1	20.4	10.2	10.0	11.0	8.0	7.6	4.7	6.6
23.....	9.2	29.5	28.4	10.0	21.8	10.0	9.8	9.8	7.8	7.6	4.6	6.6
24.....	9.0	28.9	28.4	9.9	21.8	9.0	9.5	9.0	7.6	7.5	4.6	6.2
25.....	9.0	28.2	28.5	9.4	21.5	8.7	9.0	8.7	7.5	7.3	4.5	6.2
26.....	8.9	27.9	28.0	9.4	20.6	9.3	9.0	8.0	7.4	7.0	4.5	6.4
27.....	8.9	26.5	27.0	9.3	19.4	10.0	8.8	8.0	7.4	6.5	4.4	7.0
28.....	8.8	27.0	25.5	9.3	17.3	10.5	8.7	7.8	7.3	6.5	4.3	8.0
29.....			24.0	9.2	15.3	11.5	8.7	7.7	7.0	6.4	4.2	7.8
30.....			23.0	9.6	13.4	12.0	8.8	7.6	6.8	6.3	4.2	7.4
31.....	8.8		22.0		12.7		8.9	7.5		6.0		7.3
<b>Means.</b>	<b>11.4</b>	<b>21.8</b>	<b>28.0</b>	<b>12.3</b>	<b>12.9</b>	<b>13.0</b>	<b>16.5</b>	<b>10.0</b>	<b>7.0</b>	<b>10.1</b>	<b>5.9</b>	<b>5.1</b>
<b>1904</b>												
1.....	7.5	11.0	13.0	19.8	14.5	7.3	17.2	9.5	7.4	8.8	5.4	4.8
2.....	8.0	10.0	11.4	19.8	13.0	7.4	21.5	9.2	7.0	9.1	5.4	4.7
3.....	7.5	9.8	9.7	18.2	11.6	7.4	22.1	9.2	7.2	9.4	5.7	4.7
4.....	7.3	9.4	9.5	16.5	10.6	7.4	19.9	9.0	7.3	10.3	5.7	4.7
5.....	7.0	9.0	8.8	14.2	9.8	8.0	19.3	9.0	7.7	10.1	5.6	4.8
6.....	7.0		8.4	12.5	9.2	17.4	17.4	9.0	7.5	9.5	5.6	4.8
7.....	6.8		8.1	11.6	9.8	24.9	15.8	9.6	7.3	8.8	5.5	4.8
8.....	7.0		7.8	12.1	10.5	27.2	14.5	9.5	7.0	9.2	5.5	4.8
9.....	6.9		7.6	13.1	12.5	29.2	13.5	9.4	7.0	7.6	5.4	4.7
10.....	6.9		6.9	14.6	17.7	30.2	12.1	9.0	6.8	7.3	5.4	4.7
11.....	6.8		6.7	16.1	18.0	31.0	12.0	9.2	6.7	6.9	5.4	4.6
12.....	6.7		6.5	16.7	16.4	31.4	11.5	10.4	6.5	6.8	5.4	4.6
13.....	6.7		6.5	16.3	14.6	31.6	11.3	10.5	6.4	6.7	5.3	4.6
14.....	6.6		6.6	15.1	13.0	31.6	11.5	11.3	6.3	6.5	5.2	4.6
15.....	6.3		6.7	13.5	11.9	31.5	12.0	12.0	6.2	6.2	5.1	4.6
16.....	6.3		6.9	11.9	11.0	31.4	11.4	12.0	6.1	6.0	5.1	4.5
17.....	6.3		7.0	10.7	10.6	31.3	10.8	11.2	6.1	6.0	5.0	4.5
18.....	6.0		8.5	10.3	10.0	30.7	10.4	10.5	6.0	5.9	4.9	4.5
19.....	5.9		11.0	10.0	9.9	29.8	10.2	9.9	5.9	5.8	4.8	4.5
20.....	5.8		13.2	9.6	9.6	28.6	9.9	9.3	6.5	5.7	4.8	4.5
21.....	5.8		14.9	9.3	10.6	27.2	9.6	8.8	6.7	5.7	4.8	4.5
22.....	6.0		16.0	9.0	10.8	25.6	9.5	8.5	6.6	5.7	4.9	4.4
23.....	7.0		18.3	9.0	10.4	24.0	9.9	8.2	6.6	5.8	4.8	4.4
24.....	11.0		19.8	10.2	10.0	22.7	10.2	7.9	6.5	5.8	4.8	4.5
25.....	13.5	17.9	20.3	11.5	9.7	21.2	10.1	7.7	6.4	5.8	4.8	4.6
26.....	15.0	17.8	20.3	13.0	9.2	19.8	10.0	7.5	6.3	5.7	4.7	4.6
27.....	16.8	17.1	19.6	15.0	8.9	17.9	9.8	7.2	6.2	5.7	4.8	5.5
28.....	16.4	16.0	20.4	16.2	8.6	15.7	9.8	7.1	6.1	5.7	4.8	5.5
29.....	15.4	14.7	22.5	16.7	8.2	14.0	10.0	7.0	6.8	5.6	4.8	5.4
30.....	14.0		22.2	16.3	7.8	13.0	9.8	7.0	7.6	5.5	4.8	5.2
31.....	12.0		21.4		7.4		9.5	7.3		5.5		5.0
<b>Means.</b>	<b>8.7</b>		<b>12.5</b>	<b>13.6</b>	<b>11.2</b>	<b>22.5</b>	<b>12.7</b>	<b>9.1</b>	<b>6.7</b>	<b>6.9</b>	<b>5.1</b>	<b>4.7</b>

## MISSISSIPPI RIVER SYSTEM—RED RIVER, SPRINGBANK, ARK.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1904</b>												
1.....												3.2
2.....												3.2
3.....												3.1
4.....												3.1
5.....												3.1
6.....												3.1
7.....												3.0
8.....												3.0
9.....												3.0
10.....											4.0	3.0
11.....											3.9	3.0
12.....											3.8	3.0
13.....											3.7	3.0
14.....											3.6	3.0
15.....											3.5	2.9
16.....											3.5	2.9
17.....											3.4	2.9
18.....											3.4	2.9
19.....											3.3	2.9
20.....											3.3	2.8
21.....											3.6	2.9
22.....											3.4	2.8
23.....											3.4	2.8
24.....											3.4	3.0
25.....											3.4	3.0
26.....											3.3	3.5
27.....											3.3	4.5
28.....											3.3	5.4
29.....											3.3	5.9
30.....											3.3	6.1
31.....												6.2
<b>Means</b>											3.5	3.4

## MISSISSIPPI RIVER SYSTEM—RED RIVER, SHREVEPORT, LA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	9.3	5.8	5.6	6.6	11.1	8.1	7.5	8.8	1.7	4.4	4.1	10.3
2.....	8.6	5.7	5.5	6.2	11.9	8.1	7.4	8.2	1.7	4.9	4.4	10.2
3.....	8.1	5.3	5.5	6.0	13.5	8.9	7.2	8.0	1.7	7.0	4.4	10.2
4.....	7.7	5.0	5.5	5.4	14.3	11.9	6.9	7.9	1.6	7.5	9.2	9.0
5.....	7.1	4.9	6.0	4.9	14.5	13.2	6.7	8.0	1.2	8.0	12.3	8.1
6.....	6.7	4.6	6.1	4.5	14.8	13.5	7.1	8.0	1.0	10.6	13.6	7.0
7.....	6.1	4.4	5.9	4.2	15.0	13.4	6.7	7.8	0.9	10.5	13.8	6.6
8.....	6.1	4.2	6.0	4.0	15.2	13.2	6.2	7.3	0.7	9.4	13.6	6.1
9.....	5.9	4.0	6.2	3.7	14.6	12.7	5.7	6.7	0.6	8.8	12.9	5.6
10.....	5.7	3.9	6.5	3.4	14.2	12.3	5.4	5.9	0.4	8.0	12.0	5.0
11.....	5.6	3.8	7.0	3.4	13.6	12.2	5.2	5.6	0.2	7.7	11.0	4.7
12.....	5.5	3.8	6.8	3.3	13.5	12.1	5.1	5.1	0.1	7.1	10.4	4.7
13.....	5.5	5.4	6.7	3.1	13.2	11.9	4.9	4.7	0.1	6.7	9.1	4.6
14.....	6.2	9.8	6.2	2.9	13.0	11.1	4.5	4.3	0.1	5.7	8.8	4.6
15.....	7.1	10.7	5.7	2.7	12.1	10.5	4.1	4.0	0.0	5.1	8.3	4.6
16.....	7.9	10.4	5.6	2.7	11.6	10.2	3.8	3.9	0.3	5.1	7.9	4.5
17.....	8.7	9.6	5.5	3.3	11.0	9.7	3.7	3.3	1.1	5.0	7.2	4.5
18.....	9.2	8.9	5.2	5.4	10.4	9.4	5.2	3.2	1.6	4.9	7.1	4.2
19.....	9.3	8.3	5.0	8.3	9.8	9.0	5.5	2.8	1.6	4.7	6.9	3.8
20.....	9.3	7.7	5.3	8.8	9.3	8.8	5.4	2.7	1.4	4.1	6.7	3.6
21.....	8.7	7.2	5.4	9.1	8.8	9.1	5.4	2.6	1.2	3.8	6.5	3.6
22.....	9.0	6.7	6.8	9.2	8.5	10.0	6.4	2.6	1.3	3.7	6.2	3.5
23.....	9.1	6.0	7.9	9.7	8.2	10.5	7.8	2.7	1.3	3.6	6.1	3.5
24.....	9.0	5.6	8.1	10.1	9.4	10.0	8.1	2.4	2.2	3.1	5.8	3.4
25.....	8.8	5.3	8.6	10.5	10.3	9.8	8.0	2.2	3.9	2.7	9.7	3.4
26.....	8.3	5.1	8.3	10.7	10.4	9.4	8.1	2.1	4.5	2.9	10.0	4.1
27.....	7.8	5.0	8.1	10.9	10.0	8.9	7.8	1.9	4.9	2.9	10.6	6.3
28.....	7.4	5.0	7.9	11.2	9.5	8.5	7.7	1.8	5.1	2.5	10.4	6.4
29.....	7.0		7.6	11.4	9.1	8.1	8.6	2.1	4.9	2.4	10.2	6.3
30.....	6.6		7.3	11.3	8.6	7.7	9.3	2.0	4.7	2.9	10.3	5.8
31.....	6.2		7.0		8.4		9.2	1.8		3.0		5.5
<b>Means</b>	7.5	6.1	6.5	6.6	11.5	10.4	6.5	4.5	1.7	5.4	9.0	5.6

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSISSIPPI RIVER SYSTEM—RED RIVER, SHREVEPORT, LA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	5.2	2.6	3.8	10.9	10.3	15.7	6.4	1.4	2.7	1.4	-0.9	-0.8
2.....	4.8	2.5	3.7	10.5	9.6	15.9	5.9	2.1	2.5	1.2	-0.9	-0.6
3.....	3.7	2.3	3.7	11.0	8.9	15.9	5.6	2.5	2.6	1.0	-0.8	-0.5
4.....	3.6	2.1	3.4	11.5	8.5	15.8	5.3	3.2	2.4	0.8	-0.9	-0.5
5.....	3.5	2.0	3.2	11.7	8.0	15.8	5.0	4.5	2.0	0.6	-0.9	-0.5
6.....	3.3	2.0	3.1	11.6	7.5	16.1	4.8	5.0	1.7	0.5	-1.0	-0.5
7.....	2.8	2.0	2.9	11.3	7.2	16.4	4.5	5.6	1.6	0.3	-1.0	-0.6
8.....	2.6	2.0	2.7	10.9	6.8	16.3	4.3	5.0	1.4	0.2	-1.0	-0.6
9.....	2.4	4.9	2.5	10.4	6.4	16.2	4.0	4.5	1.2	0.0	-1.0	-0.2
10.....	2.2	7.3	3.4	9.8	6.0	15.8	3.9	4.1	1.0	-0.1	-0.9	-0.3
11.....	2.0	7.3	4.1	9.1	5.7	15.5	3.6	4.7	0.9	-0.2	-0.7	-0.2
12.....	5.1	6.8	4.4	8.5	5.4	15.2	3.7	5.3	1.1	0.4	-0.5	-0.2
13.....	5.5	6.5	6.8	8.2	5.3	14.8	3.3	5.4	1.4	0.4	-0.5	-0.1
14.....	5.7	6.7	10.3	8.0	5.3	14.0	3.1	5.0	2.6	0.2	-0.6	1.3
15.....	6.0	6.7	12.2	8.2	5.5	13.5	3.0	4.4	1.0	0.0	-0.7	2.1
16.....	6.3	6.7	13.2	8.8	5.6	13.0	2.6	3.8	0.8	-0.1	-0.8	2.3
17.....	6.7	6.6	13.4	9.4	5.4	12.4	2.5	3.4	1.0	0.0	-0.9	2.6
18.....	6.8	6.4	13.5	10.7	5.1	12.0	2.3	3.0	1.8	-0.1	-0.9	4.1
19.....	6.5	6.2	13.5	11.0	4.9	11.8	2.3	3.0	2.7	-0.2	-1.0	5.4
20.....	6.1	5.7	13.1	11.6	4.5	11.2	2.1	2.6	4.0	-0.3	-1.0	6.1
21.....	5.5	5.4	12.6	12.5	8.8	10.5	1.9	2.6	4.6	-0.4	-1.0	6.0
22.....	5.0	5.1	12.1	13.3	13.0	10.0	1.8	2.4	4.5	-0.5	-0.9	5.5
23.....	4.7	4.9	11.4	13.7	14.1	9.4	1.8	2.1	4.0	-0.5	-0.6	4.7
24.....	4.3	4.7	10.6	14.0	14.5	8.8	1.8	2.0	3.5	-0.5	-0.7	3.9
25.....	4.0	4.5	9.8	14.0	14.8	8.4	1.8	2.1	3.1	-0.5	-0.7	3.2
26.....	3.7	4.3	9.4	13.9	15.0	8.0	1.7	1.8	2.8	-0.6	-0.7	2.8
27.....	3.4	4.0	9.5	13.5	15.1	7.6	1.5	1.7	2.5	-0.7	-0.7	2.5
28.....	3.1	3.9	10.5	13.0	15.2	7.3	1.4	1.6	2.1	-0.7	-0.8	2.2
29.....	2.9	.....	11.1	12.1	15.2	7.0	1.4	1.8	1.9	-0.7	-0.8	2.0
30.....	2.7	.....	11.4	11.3	15.4	6.6	1.3	2.2	1.6	-0.8	-0.8	1.8
31.....	2.6	.....	11.4	.....	15.5	.....	1.2	2.5	.....	-0.8	.....	1.3
<b>Means.</b>	<b>4.3</b>	<b>4.7</b>	<b>8.3</b>	<b>11.1</b>	<b>9.3</b>	<b>12.6</b>	<b>3.1</b>	<b>3.3</b>	<b>2.2</b>	<b>0.0</b>	<b>-0.8</b>	<b>1.7</b>
<b>1902</b>												
1.....	1.1	4.1	7.8	14.0	11.2	9.3	12.9	11.3	6.4	14.2	5.2	21.6
2.....	0.9	6.0	8.2	14.3	10.6	13.5	12.2	13.5	6.4	13.4	4.9	23.5
3.....	1.3	7.0	8.2	14.4	10.2	14.8	12.0	15.3	5.9	13.0	5.0	25.4
4.....	0.9	7.4	8.3	14.2	9.7	15.3	11.8	16.1	5.8	12.1	4.8	27.5
5.....	0.7	7.3	8.2	13.9	9.3	15.6	11.5	16.3	5.4	11.3	4.9	28.9
6.....	0.5	6.9	7.7	13.4	8.8	15.8	11.0	16.2	5.3	11.4	5.1	29.9
7.....	0.3	6.3	7.0	13.3	8.5	16.0	10.6	16.0	5.2	12.9	5.2	30.9
8.....	0.2	5.6	6.1	12.6	8.0	16.1	10.1	15.6	4.8	13.6	5.1	31.7
9.....	0.1	4.9	5.6	12.4	7.6	16.1	9.6	15.2	4.5	13.7	5.6	32.4
10.....	0.0	4.4	5.2	13.2	7.2	16.5	9.1	15.1	4.1	13.5	10.2	33.0
11.....	-0.1	3.9	4.9	14.6	6.9	16.8	8.7	15.0	3.9	12.9	11.0	33.5
12.....	-0.2	3.6	5.2	15.4	7.0	17.2	8.3	14.8	3.9	12.1	10.8	33.8
13.....	-0.2	3.2	4.9	15.8	9.9	17.5	7.8	14.7	3.8	11.1	10.3	34.0
14.....	-0.6	2.9	4.6	15.8	10.8	17.6	7.4	14.3	3.7	10.1	9.7	33.9
15.....	-0.6	2.7	4.4	15.9	10.5	17.6	7.0	14.1	3.4	9.5	9.1	34.1
16.....	-0.6	2.4	5.1	16.0	9.8	17.3	6.7	14.0	3.4	9.0	8.7	34.1
17.....	-0.6	2.1	8.0	16.3	9.0	16.9	6.4	14.1	3.5	8.5	9.3	33.7
18.....	-0.7	1.9	9.9	16.5	8.4	16.0	6.1	13.7	4.0	8.1	11.9	33.3
19.....	-0.9	1.6	10.0	16.6	7.9	15.0	5.8	13.1	4.3	7.7	13.6	32.8
20.....	-0.9	1.6	9.9	16.8	7.5	14.0	5.5	12.4	4.3	7.5	15.0	32.4
21.....	-0.6	1.5	9.5	16.7	7.3	13.4	5.8	11.7	4.0	7.3	15.8	32.1
22.....	-0.6	1.4	9.0	16.7	7.1	13.0	5.6	11.0	3.8	7.0	16.3	31.7
23.....	-0.9	1.1	8.4	16.5	9.1	12.2	5.5	10.5	3.8	6.9	16.8	31.3
24.....	-0.9	1.7	8.4	16.3	10.8	11.4	5.4	9.8	3.9	6.7	17.2	30.9
25.....	-1.0	3.1	9.1	15.7	10.8	11.1	5.4	9.3	3.9	6.6	18.1	30.5
26.....	-1.0	5.0	10.1	14.3	10.6	10.6	5.4	8.8	3.8	6.4	18.8	30.2
27.....	-0.7	6.2	11.1	13.8	10.2	10.1	5.1	8.3	8.0	6.3	19.4	29.9
28.....	-0.7	7.2	12.6	12.9	9.4	12.0	5.1	7.8	12.9	6.1	19.9	29.6
29.....	-0.5	.....	14.0	12.3	8.4	16.8	5.3	7.4	14.4	5.8	20.3	29.2
30.....	0.1	.....	14.0	11.7	7.7	14.9	5.5	6.9	14.5	5.5	20.8	28.8
31.....	1.3	.....	13.9	.....	7.8	.....	7.4	6.5	.....	5.2	.....	28.2
<b>Means.</b>	<b>-0.2</b>	<b>4.0</b>	<b>8.4</b>	<b>14.8</b>	<b>9.0</b>	<b>14.7</b>	<b>7.8</b>	<b>12.5</b>	<b>5.5</b>	<b>9.5</b>	<b>11.6</b>	<b>30.7</b>

## DESCRIPTION OF RIVER GAGES, ETC.

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## MISSISSIPPI RIVER SYSTEM—RED RIVER, SHREVEPORT, LA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	27.6	7.7	28.8	30.9	6.0	8.6	3.5	4.8	1.6	-1.1	-0.4	-1.9
2.....	26.9	7.4	29.3	30.4	5.5	7.8	4.4	4.6	1.4	-1.2	-0.5	-1.9
3.....	26.0	7.4	29.5	29.9	5.2	9.4	4.9	4.4	1.2	-1.3	-0.7	-2.0
4.....	24.9	7.5	29.8	29.3	5.0	11.0	4.7	4.3	1.1	-1.3	-0.8	-2.0
5.....	23.7	7.6	30.0	28.6	4.6	11.6	4.3	4.7	0.9	0.1	-0.9	-2.0
6.....	22.3	8.4	30.1	27.6	4.2	11.7	3.5	6.0	0.6	4.5	-1.0	-2.0
7.....	21.1	10.3	30.2	26.5	4.0	11.1	9.4	6.1	0.4	5.8	-1.1	-2.1
8.....	20.1	11.5	30.4	25.3	3.9	10.6	13.6	5.6	0.2	5.4	0.3	-2.0
9.....	19.3	12.9	30.5	23.8	4.0	10.0	14.5	4.9	0.0	5.0	2.4	-2.0
10.....	18.5	13.6	30.7	22.3	4.0	8.8	14.7	4.3	-0.2	5.9	2.6	-2.0
11.....	17.6	14.3	30.9	20.7	3.8	8.0	14.9	3.8	-0.3	7.6	2.2	-2.0
12.....	16.8	14.5	31.1	19.1	4.0	7.3	15.0	3.3	-0.4	7.9	1.6	-2.0
13.....	15.8	14.4	31.2	17.4	5.0	7.0	15.0	3.1	-0.5	7.4	1.0	-1.9
14.....	15.1	15.0	31.3	16.0	5.4	6.9	15.0	3.0	-0.6	6.6	0.5	-1.9
15.....	14.3	16.2	31.5	14.8	5.2	6.8	15.0	4.0	-0.7	5.7	0.2	-1.9
16.....	13.7	17.5	31.7	13.8	5.2	6.6	14.8	4.7	-0.7	4.8	-0.2	-2.0
17.....	13.1	18.6	31.9	12.9	5.7	6.3	14.7	4.9	-0.6	4.0	-0.4	-2.0
18.....	12.5	19.2	32.2	12.2	6.1	5.5	14.3	5.4	-0.6	3.3	-0.7	-2.0
19.....	12.0	19.4	32.4	11.5	6.0	4.6	13.8	5.8	-0.7	2.6	-1.0	-2.0
20.....	11.5	19.7	32.8	11.0	5.8	4.1	12.7	5.8	-0.7	2.1	-1.1	-1.9
21.....	11.0	20.0	33.0	10.4	5.5	3.9	11.2	5.6	-0.9	1.9	-1.3	-2.0
22.....	10.7	20.6	33.1	9.8	5.1	4.4	9.8	5.6	-0.7	1.6	-1.5	-2.0
23.....	10.2	21.3	33.1	9.2	7.1	4.4	8.7	5.7	-0.3	1.5	-1.5	-2.0
24.....	10.0	22.6	33.0	8.7	11.5	3.9	7.8	5.2	-0.1	1.2	-1.6	-2.0
25.....	9.5	24.0	32.8	8.2	12.8	3.5	7.2	4.5	0.0	1.0	-1.6	-1.0
26.....	9.1	25.5	32.6	7.7	13.2	3.3	6.7	3.8	-0.2	0.9	-1.7	-1.1
27.....	9.2	27.1	32.3	7.3	13.0	3.0	6.2	3.2	-0.4	0.8	-1.8	-1.2
28.....	8.8	28.1	32.1	6.9	12.7	2.8	5.7	2.8	-0.6	0.6	-1.8	-1.3
29.....	8.6		31.8	6.5	11.8	2.8	5.4	2.4	-0.8	0.3	-1.9	-1.3
30.....	8.4		31.6	6.3	10.8	3.0	5.2	2.0	-1.0	-0.1	-1.9	-1.1
31.....	8.0		31.3		9.8		5.1	2.0		-0.3		-0.4
<b>Means.</b>	<b>15.4</b>	<b>16.2</b>	<b>31.4</b>	<b>16.8</b>	<b>6.8</b>	<b>6.6</b>	<b>9.7</b>	<b>4.4</b>	<b>-0.1</b>	<b>2.7</b>	<b>-0.5</b>	<b>-1.8</b>
<b>1904</b>												
1.....	-0.1	5.9	8.2	12.9	11.0	4.2	24.1	6.5	1.5	0.3	-0.7	-1.3
2.....	0.0	5.1	7.7	12.8	10.8	3.8	22.5	6.3	1.4	0.4	-0.7	-1.3
3.....	0.2	4.3	6.8	12.8	10.1	3.4	21.5	6.1	1.4	0.8	-0.9	-1.3
4.....	0.1	3.5	5.9	12.6	9.7	3.3	20.9	6.0	1.5	1.6	-0.9	-1.4
5.....	0.0	2.9	5.0	12.1	8.6	3.2	20.4	5.8	1.5	2.4	-1.0	-1.4
6.....	-0.2	2.5	4.3	11.4	8.0	3.2	19.8	5.8	1.3	2.7	-0.9	-1.5
7.....	-0.4	2.1	3.8	10.4	7.6	3.4	18.9	5.6	1.3	3.3	-0.7	-1.5
8.....	-0.5	1.9	3.2	9.9	7.1	10.7	17.8	5.6	1.6	3.5	-0.7	-1.6
9.....	-0.6	1.6	2.8	9.4	6.9	13.0	16.7	5.5	1.6	3.3	-0.7	-1.6
10.....	-0.7	1.3	2.3	9.5	7.0	13.7	15.5	5.5	1.6	2.8	-0.7	-1.6
11.....	-0.8	1.2	2.1	10.0	8.3	14.2	14.5	5.3	1.3	2.4	-0.8	-1.6
12.....	-0.9	1.0	1.8	10.8	10.5	14.6	13.6	5.1	1.2	2.0	-1.0	-1.6
13.....	-1.0	1.0	1.6	11.4	10.8	15.0	12.8	4.9	1.0	1.5	-1.0	-1.6
14.....	-1.0	1.0	1.6	11.8	10.2	15.7	12.0	4.8	0.9	1.1	-1.0	-1.6
15.....	-1.1	1.3	1.2	11.7	9.3	16.6	11.4	5.1	0.8	0.9	-1.0	-1.6
16.....	-1.3	1.5	1.0	11.3	8.6	17.5	11.0	5.5	0.5	0.6	-1.1	-1.7
17.....	-1.4	1.4	1.0	10.7	8.0	19.3	10.7	5.9	0.5	0.4	-1.1	-1.7
18.....	-1.4	1.2	1.1	10.0	7.4	21.5	10.4	6.4	0.4	0.3	-1.2	-1.7
19.....	-1.5	1.1	1.2	9.6	6.9	23.1	9.9	6.2	0.3	0.2	-1.3	-1.7
20.....	-1.6	0.9	1.4	9.0	6.4	24.9	9.3	5.8	0.2	0.0	-1.3	-1.7
21.....	-1.6	0.8	2.2	8.6	6.1	26.1	8.8	5.2	0.2	-0.2	-1.2	-1.7
22.....	-1.5	0.9	4.1	8.5	5.8	27.3	8.3	4.7	0.2	-0.3	-1.2	-1.8
23.....	-1.3	3.3	6.3	8.2	5.9	28.2	8.0	4.1	0.2	-0.4	-1.1	-1.8
24.....	-1.3	6.0	7.9	7.9	6.0	28.5	7.7	3.7	0.3	-0.4	-1.1	-1.6
25.....	-1.2	7.6	9.5	8.0	6.0	28.5	7.5	3.3	0.4	-0.4	-1.1	-1.6
26.....	-0.7	8.5	10.6	8.1	5.8	28.2	7.4	2.9	0.4	-0.3	-1.2	-0.9
27.....	2.8	8.8	11.2	8.4	5.7	27.7	7.4	2.6	0.4	-0.4	-1.2	2.2
28.....	6.0	8.9	11.3	9.2	5.4	27.2	7.4	2.3	0.3	-0.5	-1.3	3.0
29.....	7.1	8.6	11.3	10.1	5.0	26.5	7.2	2.0	0.3	-0.5	-1.3	2.7
30.....	7.0		12.4	10.8	4.9	25.4	7.0	1.8	0.3	-0.6	-1.3	2.5
31.....	6.5		12.9		4.6		6.8	1.6		-0.6		2.4
<b>Means.</b>	<b>0.2</b>	<b>3.3</b>	<b>5.3</b>	<b>10.3</b>	<b>7.6</b>	<b>17.3</b>	<b>12.8</b>	<b>4.8</b>	<b>0.8</b>	<b>0.8</b>	<b>-1.0</b>	<b>-0.9</b>

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSISSIPPI RIVER SYSTEM—RED RIVER, ALEXANDRIA, LA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	7.8	4.5	6.6	11.3	16.3	9.0	8.4	8.7	0.5	1.9	0.5	8.2
2.....	7.5	4.0	7.5	10.9	16.0	8.6	8.0	8.5	0.4	2.0	0.4	8.2
3.....	7.0	3.6	7.8	10.3	15.6	8.5	7.3	8.3	0.4	2.0	0.5	8.3
4.....	6.4	3.6	7.4	9.4	15.8	8.5	7.1	7.7	0.3	2.0	0.6	7.9
5.....	5.8	3.5	6.8	9.3	16.6	9.0	6.9	7.3	0.3	2.7	0.7	7.4
6.....	5.4	4.5	6.2	9.2	17.2	11.6	6.7	7.0	0.1	3.7	5.1	6.7
7.....	5.0	4.2	6.0	8.5	17.5	12.7	6.4	7.0	0.0	5.3	8.2	6.1
8.....	4.6	4.1	7.8	8.2	17.6	13.0	6.4	6.8	0.0	7.0	9.6	5.5
9.....	4.3	4.0	8.5	7.9	17.7	12.9	6.3	6.5	-0.1	7.3	10.4	4.8
10.....	4.0	3.7	8.8	7.7	17.7	12.4	6.4	6.0	-0.2	7.0	10.7	4.4
11.....	5.6	3.7	8.9	7.5	17.5	11.8	6.5	5.6	-0.3	6.4	10.7	3.9
12.....	6.3	2.9	8.6	7.0	17.0	11.3	6.0	5.2	-0.4	5.8	10.0	3.7
13.....	5.9	3.5	8.0	6.5	16.5	10.9	5.8	4.8	-0.5	5.2	9.0	3.6
14.....	5.6	3.8	7.6	5.9	15.9	10.7	5.5	4.2	-0.5	4.7	8.4	3.6
15.....	5.0	4.6	7.3	5.4	15.3	10.3	5.2	3.8	-0.6	4.3	7.4	3.6
16.....	4.6	7.0	7.2	7.7	14.8	9.7	4.9	3.3	-0.7	3.8	6.7	3.5
17.....	5.0	8.1	7.1	14.7	14.0	9.0	4.6	3.0	-0.7	3.6	6.1	3.4
18.....	5.8	8.2	7.0	18.0	13.4	8.4	4.2	2.6	-0.8	3.5	5.5	3.3
19.....	6.8	8.1	7.8	17.9	12.9	7.9	3.9	2.0	-1.0	3.2	5.1	3.2
20.....	7.5	7.6	10.8	17.0	12.2	7.7	3.9	1.9	-1.2	2.9	5.1	3.2
21.....	7.5	7.1	11.1	16.7	11.7	7.4	4.3	1.6	-1.0	2.6	5.0	3.1
22.....	7.3	6.5	11.2	16.5	10.8	7.1	4.5	1.3	-0.6	2.4	4.7	3.1
23.....	6.9	5.9	10.8	17.5	10.0	7.7	4.6	1.1	-0.2	2.0	4.2	2.9
24.....	6.8	5.4	11.5	19.2	9.3	10.1	4.6	0.9	-0.1	1.8	3.9	2.8
25.....	6.8	4.9	13.5	19.8	8.9	10.7	5.4	0.8	-0.1	1.6	4.0	2.7
26.....	6.7	4.5	14.6	19.4	8.8	10.8	6.5	0.7	-0.2	1.4	4.7	2.6
27.....	6.4	4.2	15.0	18.7	8.9	10.6	7.2	0.9	-0.3	1.1	6.7	2.5
28.....	6.0	4.6	14.5	17.8	9.1	10.0	7.4	0.8	0.3	0.9	7.6	3.0
29.....	5.6	.....	13.7	17.0	8.9	9.8	7.4	0.7	1.0	0.7	7.7	3.6
30.....	5.1	.....	12.9	16.0	9.1	9.1	7.4	0.6	1.6	0.6	8.0	3.8
31.....	4.7	.....	12.1	.....	9.3	.....	8.0	0.5	.....	0.5	.....	3.9
<b>Means.</b>	<b>6.0</b>	<b>5.0</b>	<b>9.5</b>	<b>12.6</b>	<b>13.6</b>	<b>9.9</b>	<b>6.1</b>	<b>3.9</b>	<b>-0.2</b>	<b>3.2</b>	<b>5.9</b>	<b>4.4</b>
<b>1901</b>												
1.....	3.9	2.9	6.3	11.7	13.7	13.7	5.0	-0.6	-0.3	0.4	-2.5	-2.6
2.....	3.8	2.5	7.3	12.1	12.8	13.7	4.5	-0.2	-0.4	0.0	-2.7	-2.7
3.....	3.5	3.8	7.1	12.0	12.0	13.8	4.2	0.0	-0.2	-0.2	-2.7	-2.2
4.....	3.1	4.2	6.7	11.6	11.0	13.9	4.0	0.1	0.0	-0.3	-2.8	-2.1
5.....	2.9	5.1	6.2	11.3	10.4	13.7	3.8	0.1	0.1	-0.4	-2.8	-2.1
6.....	2.3	5.7	5.6	11.2	9.6	13.8	3.5	0.5	0.5	-0.5	-2.8	-2.0
7.....	1.8	5.7	5.0	11.4	8.9	13.7	3.4	0.2	0.0	-0.6	-2.9	-2.0
8.....	1.4	7.1	4.6	11.5	8.4	13.7	3.2	0.7	-0.1	-0.7	-2.9	-2.0
9.....	1.1	7.5	4.3	11.6	8.0	14.0	3.0	0.3	-0.2	-1.2	-2.9	-1.9
10.....	0.9	7.5	4.2	11.4	7.6	14.3	2.8	1.9	-0.3	-1.4	-2.9	-1.2
11.....	3.2	7.5	4.0	10.7	7.2	14.5	2.7	2.1	-0.4	-1.5	-3.0	-1.4
12.....	6.8	9.3	4.1	9.7	6.6	14.2	2.6	2.3	-0.5	-1.5	-3.0	-1.3
13.....	7.5	11.3	4.3	9.1	6.2	13.9	2.4	2.0	-0.7	-1.5	-3.0	-1.3
14.....	7.8	12.0	4.6	9.1	5.6	13.5	2.2	1.8	-0.7	-1.4	-3.0	-1.3
15.....	7.4	11.9	5.2	8.6	5.2	13.2	2.1	1.6	1.8	-1.2	-2.9	-0.9
16.....	6.9	11.6	8.5	8.5	4.8	12.6	1.8	2.2	1.7	-0.7	-2.9	-0.7
17.....	6.6	10.7	10.6	7.4	4.5	11.9	1.5	2.4	1.2	-0.5	-2.9	-0.7
18.....	6.5	9.9	11.5	7.5	4.6	11.0	1.2	2.3	0.9	-0.4	-2.8	-0.5
19.....	6.4	9.1	12.0	8.1	4.7	10.3	0.9	2.2	0.2	-0.3	-3.0	0.2
20.....	6.3	8.5	12.9	10.3	4.8	9.5	0.6	2.0	0.2	-0.6	-3.1	0.5
21.....	6.2	8.1	13.2	11.7	4.6	9.0	0.4	1.7	0.1	-0.7	-3.2	0.8
22.....	6.2	7.5	13.5	12.5	4.6	8.8	0.3	1.5	-0.1	-0.9	-3.3	1.6
23.....	6.0	7.5	13.5	12.6	4.3	8.5	0.3	1.3	0.4	-1.0	-3.4	2.7
24.....	5.6	7.4	13.9	13.5	8.3	8.3	0.3	1.1	1.0	-1.1	-3.4	3.7
25.....	5.5	7.3	14.1	14.0	11.3	8.1	0.2	0.9	1.4	-1.1	-3.1	4.0
26.....	5.0	7.1	13.3	14.3	12.4	7.6	0.2	0.7	1.8	-1.3	-2.8	3.7
27.....	4.6	6.7	12.3	14.6	13.0	7.2	0.0	0.5	1.5	-1.5	-2.8	3.4
28.....	4.3	6.2	11.5	14.5	13.1	6.7	-0.2	0.3	1.3	-1.7	-2.7	2.9
29.....	3.9	.....	10.8	14.4	13.4	6.1	-0.6	0.1	0.9	-1.8	-2.6	2.8
30.....	3.6	.....	10.6	14.3	13.5	5.5	-0.6	0.1	0.5	-2.1	-2.5	3.1
31.....	3.3	.....	10.7	.....	13.6	.....	-0.6	0.0	.....	-2.3	.....	3.6
<b>Means.</b>	<b>4.7</b>	<b>7.6</b>	<b>8.8</b>	<b>11.4</b>	<b>8.7</b>	<b>11.3</b>	<b>1.8</b>	<b>1.0</b>	<b>0.4</b>	<b>-1.0</b>	<b>-2.9</b>	<b>0.1</b>



## MISSISSIPPI RIVER SYSTEM—RED RIVER, ALEXANDRIA, LA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	2.0	-1.5	5.2	15.8	15.1	7.5	11.6	4.6	6.5	9.5	4.1	18.8
2.....	1.5	-1.1	6.0	16.0	14.3	6.8	12.3	4.8	6.1	11.5	4.0	19.5
3.....	1.1	-0.5	6.9	16.3	13.4	6.5	11.5	6.9	5.8	11.7	3.9	20.1
4.....	0.7	-0.1	7.3	16.5	12.6	9.1	10.7	9.7	5.7	13.0	3.7	21.1
5.....	0.3	0.6	7.5	16.9	12.0	11.3	10.7	11.6	5.3	12.6	4.1	22.1
6.....	0.0	2.8	7.6	17.0	11.4	12.4	10.9	12.6	5.0	12.1	4.5	23.2
7.....	-0.2	4.1	7.7	17.1	10.9	12.9	11.2	13.2	4.7	11.5	4.2	24.2
8.....	-0.2	4.7	7.7	17.2	10.3	13.2	11.5	13.7	4.4	11.0	3.9	25.2
9.....	-0.3	4.9	7.4	17.2	10.0	13.6	11.0	14.0	4.1	11.5	3.8	25.8
10.....	-0.6	4.8	7.0	16.9	9.5	13.9	10.5	14.0	4.1	12.2	3.7	26.6
11.....	-0.7	4.5	6.5	16.5	9.1	14.3	10.0	13.8	3.7	12.5	3.7	27.5
12.....	-0.9	4.0	6.0	16.4	8.7	14.6	9.6	13.7	3.5	12.5	4.5	28.3
13.....	-1.1	3.5	6.1	16.5	7.9	14.8	9.3	13.7	3.3	12.2	7.6	29.0
14.....	-1.2	3.2	6.6	17.2	7.4	15.1	8.9	13.7	3.2	11.9	8.2	29.6
15.....	-1.3	2.7	6.9	18.1	7.4	15.2	8.5	13.5	3.1	11.1	8.5	30.1
16.....	-1.4	2.6	6.7	18.4	8.8	15.2	8.0	13.2	2.7	10.1	7.9	31.0
17.....	-1.6	2.4	6.6	18.7	9.8	15.1	7.7	13.0	2.5	9.2	7.5	31.3
18.....	-1.7	2.2	6.2	19.1	9.3	15.0	7.4	12.8	2.4	8.8	7.1	31.6
19.....	-1.8	2.0	6.2	19.4	10.8	14.9	7.1	12.5	2.3	8.0	6.9	31.8
20.....	-1.9	1.8	7.8	19.5	11.0	14.4	6.8	12.4	2.2	7.6	8.4	32.0
21.....	-2.1	1.9	9.3	19.7	9.3	13.6	6.5	12.0	2.2	7.2	10.2	32.0
22.....	-2.1	1.7	10.2	19.7	9.0	12.7	6.1	11.5	2.1	6.5	11.7	32.2
23.....	-2.1	1.6	10.2	19.5	7.9	11.7	5.7	10.6	2.5	6.3	12.5	32.3
24.....	-2.1	1.4	10.3	19.5	7.3	10.8	5.6	10.3	2.7	6.0	13.3	32.3
25.....	-2.1	1.9	10.5	19.4	7.5	10.3	5.4	10.0	2.8	5.7	14.3	32.4
26.....	-2.1	2.3	10.9	19.1	7.9	9.7	5.3	9.3	2.8	5.4	15.2	32.4
27.....	-2.1	3.2	10.9	18.6	9.0	9.0	5.3	8.7	2.5	5.1	16.1	32.4
28.....	-2.1	4.2	12.0	18.1	9.3	8.5	5.3	8.2	2.3	4.9	16.8	32.4
29.....	-2.0	.....	12.9	17.5	9.2	8.1	5.0	7.7	3.7	4.6	17.5	32.4
30.....	-1.9	.....	14.1	16.0	8.8	10.7	4.8	7.2	5.4	4.4	18.2	32.2
31.....	-1.7	.....	15.2	.....	8.2	.....	4.7	6.8	.....	4.3	.....	32.0
<b>Means.</b>	-1.0	2.5	8.5	17.8	9.8	12.0	8.2	11.0	3.7	9.1	8.5	28.5
<b>1903</b>												
1.....	31.9	13.0	29.6	35.9	15.7	15.5	5.5	7.1	4.2	0.9	1.2	-0.6
2.....	32.0	12.6	30.1	35.9	15.4	14.8	5.4	6.9	3.8	0.8	1.1	-0.7
3.....	32.0	12.5	31.4	35.8	14.6	14.3	5.5	6.7	3.5	0.7	1.0	-0.7
4.....	31.6	12.5	32.0	35.7	14.1	13.2	5.7	6.4	3.3	0.5	0.9	-0.8
5.....	31.4	12.5	32.8	35.5	13.7	12.1	5.8	6.0	3.1	0.4	0.8	-0.8
6.....	31.2	12.5	33.0	35.4	13.3	12.0	6.5	6.0	2.9	0.4	0.7	-0.8
7.....	30.8	12.5	33.1	35.2	13.0	12.8	6.0	5.8	2.7	0.4	0.6	-0.9
8.....	30.2	14.5	33.2	35.0	12.6	13.6	7.1	5.8	2.5	0.3	0.4	-0.9
9.....	29.1	16.5	33.4	34.7	12.2	14.0	6.7	6.4	2.3	1.7	0.3	-0.9
10.....	28.0	18.0	33.7	34.2	12.0	14.0	9.0	7.0	2.2	4.3	0.2	-0.9
11.....	27.1	19.5	34.1	33.8	11.8	13.2	13.0	6.9	2.0	5.2	0.2	-1.0
12.....	26.7	21.2	34.4	33.0	11.7	13.0	15.2	6.9	1.8	5.8	0.6	-1.0
13.....	26.0	21.8	34.5	32.1	11.6	12.2	16.0	6.4	1.7	6.4	1.5	-0.7
14.....	25.2	22.0	34.6	31.1	11.6	11.4	16.7	5.7	1.6	6.9	2.0	-0.7
15.....	24.2	21.8	34.9	29.3	11.5	10.7	17.0	5.0	1.5	7.8	2.1	-0.8
16.....	23.2	21.7	35.1	28.0	11.5	10.1	17.1	4.7	1.5	8.0	1.8	-0.8
17.....	22.2	23.9	35.1	26.3	11.7	9.7	17.1	4.4	1.3	7.1	1.5	-0.8
18.....	21.4	24.4	35.2	24.7	11.7	9.5	17.1	4.4	1.2	6.1	1.1	-0.9
19.....	20.6	25.8	35.2	23.2	11.5	9.4	17.0	5.3	1.1	5.3	0.9	-0.9
20.....	19.9	25.6	35.2	22.1	11.3	9.0	16.9	5.8	0.9	4.6	0.8	-0.9
21.....	19.0	25.8	35.6	21.2	11.5	8.5	16.8	6.2	0.8	3.9	0.5	-0.9
22.....	18.2	26.0	35.8	20.6	11.6	8.0	16.0	6.5	0.8	3.2	0.2	-1.0
23.....	17.6	26.0	35.9	20.0	11.6	7.5	15.5	6.9	0.8	2.9	0.0	-1.0
24.....	16.8	26.1	35.9	19.4	11.2	6.8	13.9	7.2	0.8	2.5	0.0	-1.1
25.....	16.0	26.6	36.1	18.8	11.0	6.5	12.5	7.2	0.7	2.3	-0.1	-1.0
26.....	15.7	27.0	36.1	18.2	11.0	6.8	11.1	7.2	0.7	2.2	-0.1	-0.9
27.....	15.1	27.9	36.2	17.6	13.4	7.0	10.2	6.9	0.8	2.1	-0.2	-0.8
28.....	14.5	28.9	36.2	17.0	15.2	6.8	9.5	6.4	0.8	1.9	-0.3	-0.6
29.....	14.0	.....	36.2	16.5	16.0	6.2	8.3	5.9	0.9	1.7	-0.5	-0.4
30.....	14.0	.....	36.0	16.0	16.3	5.7	7.9	5.2	1.1	1.5	-0.6	-0.3
31.....	13.5	.....	36.0	.....	16.0	.....	7.5	4.6	.....	1.3	.....	-0.1
<b>Means.</b>	23.2	20.7	34.4	27.4	12.8	10.5	11.5	6.1	1.8	3.2	0.6	-0.8

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSISSIPPI RIVER SYSTEM—RED RIVER, ALEXANDRIA, LA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	-0.1	3.9	9.5	14.3	11.8	6.0	29.6	6.5	2.3	0.3	-0.6	-1.1
2.....	-0.1	6.4	9.3	14.6	13.2	5.7	29.5	6.4	2.0	0.3	-0.6	-1.0
3.....	-0.2	6.7	9.2	15.6	14.0	5.4	28.7	6.2	2.9	0.3	-0.4	-1.0
4.....	-0.3	6.7	9.0	16.3	14.4	5.1	27.7	5.8	3.2	0.2	-0.3	-1.0
5.....	-0.2	6.0	8.8	16.3	14.2	4.5	27.0	5.6	2.9	0.2	-0.6	-1.0
6.....	0.1	5.2	8.0	16.3	13.8	4.0	26.4	5.3	2.7	0.2	-0.7	-1.3
7.....	0.5	4.5	7.6	16.1	13.4	3.8	25.8	5.2	2.3	0.2	-0.7	-1.3
8.....	0.5	3.8	7.0	15.9	12.8	3.5	25.0	5.1	2.2	0.5	-0.9	-1.4
9.....	0.6	3.4	6.2	18.4	12.0	3.3	24.0	5.1	1.9	1.3	-0.8	-1.4
10.....	0.6	3.0	5.3	19.3	11.5	4.1	23.0	5.1	1.4	1.8	-0.9	-1.4
11.....	0.6	2.9	4.8	19.3	11.0	10.1	21.7	5.3	1.5	2.0	-0.9	-1.4
12.....	0.3	2.4	4.1	18.3	10.6	13.0	20.5	5.3	1.6	2.1	-0.9	-1.5
13.....	0.2	2.2	3.5	17.3	9.8	14.4	19.0	4.9	1.6	2.2	-0.9	-1.5
14.....	0.1	2.1	3.0	16.2	10.7	15.5	16.5	4.8	1.4	1.7	-0.9	-1.6
15.....	0.0	2.0	2.8	16.2	12.5	16.0	15.1	4.7	1.3	1.4	-0.8	-1.6
16.....	-0.1	1.7	2.6	16.4	13.3	16.5	13.9	4.4	1.3	1.2	-0.7	-1.6
17.....	-0.2	1.5	2.4	16.5	13.2	17.7	12.7	4.2	1.2	0.8	-0.9	-1.6
18.....	-0.3	1.4	2.3	16.7	12.7	18.7	11.5	4.1	1.1	0.5	-1.0	-1.6
19.....	-0.3	1.4	2.0	16.1	11.8	19.5	10.7	4.3	1.0	0.4	-1.0	-1.6
20.....	-0.4	1.4	2.0	15.5	11.0	20.7	10.5	4.5	0.8	0.2	-1.0	-1.7
21.....	-0.5	1.5	2.0	14.6	10.1	22.7	10.2	4.7	0.6	0.1	-1.1	-1.7
22.....	-0.6	1.7	2.8	13.8	9.1	24.2	9.8	4.9	0.4	0.0	-1.1	-1.7
23.....	-0.6	2.0	2.9	13.2	8.5	25.7	9.0	5.1	0.4	-0.1	-1.1	-1.7
24.....	-0.5	2.0	4.3	12.6	8.1	26.3	9.0	4.9	0.5	-0.1	-1.1	-1.8
25.....	-0.5	2.1	5.2	12.0	7.6	27.3	8.6	4.4	0.6	-0.2	-1.1	-1.7
26.....	-0.5	2.5	6.6	12.1	7.3	28.0	8.0	4.0	0.6	-0.2	-1.1	-1.6
27.....	-0.5	4.5	8.4	11.6	7.2	28.6	7.5	3.7	0.5	-0.3	-1.2	-1.6
28.....	-0.5	6.5	10.1	11.2	7.0	29.1	7.2	3.3	0.5	-0.3	-1.2	3.0
29.....	-0.4	8.1	12.6	11.0	6.9	29.3	6.8	2.9	0.4	-0.4	-1.3	6.9
30.....	-0.3		13.3	11.0	6.8	29.4	6.7	2.8	0.3	-0.4	-1.3	8.4
31.....	1.9		14.0		6.3		6.6	2.6		-0.5		8.6
Means.	-0.1	3.4	6.2	15.2	11.1	15.9	16.4	4.7	1.4	0.5	-0.9	-0.4

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, ST. CLOUD, MINN.

1904												
1.....									0.6	0.9	1.5	Frozen.
2.....									1.0	0.9	1.4	
3.....									1.0	0.8	1.4	
4.....									1.1	0.8	1.3	
5.....									1.1	1.0	1.2	
6.....									1.1	1.0	1.2	
7.....									1.0	0.8	1.2	
8.....									0.8	0.9	1.1	
9.....									0.7	1.1	1.0	
10.....									0.7	1.5	0.9	
11.....									0.6	2.1	1.1	
12.....									0.4	2.2	1.2	
13.....									0.2	2.2	1.3	
14.....									0.1	2.3	1.3	
15.....									0.2	2.2	1.2	
16.....									0.3	2.2	1.0	
17.....									0.3	2.1	0.8	
18.....									0.2	2.1	0.8	
19.....									0.0	2.2	0.7	
20.....									-0.1	2.3	0.7	
21.....									0.0	2.3	0.6	
22.....									0.2	2.2	0.5	
23.....									0.2	2.2	0.4	
24.....									0.2	2.2	0.4	
25.....									0.6	2.2	0.4	
26.....									0.6	2.2	0.4	
27.....									0.6	2.1	0.6	
28.....									1.0	2.0	0.8	
29.....									1.0	1.8	Frozen.	
30.....									1.0	1.7		
31.....										1.6		
Means.									0.6	1.7	0.9	

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, ST. PAUL, MINN.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	Frozen.	Frozen.	Frozen.	3.4	3.7	3.2	0.8	1.1	5.4	5.8	4.5	2.0
2.....				3.0	3.7	3.0	0.7	1.2	5.3	5.8	4.5	2.0
3.....				3.2	3.8	2.9	1.0	1.2	5.0	5.9	4.5	2.0
4.....				3.7	3.8	2.7	2.0	1.2	4.8	5.9	4.5	2.2
5.....				3.8	3.8	2.6	2.6	1.0	4.7	6.3	4.6	2.3
6.....				4.6	3.7	2.5	2.9	1.0	4.5	6.5	4.6	2.3
7.....				5.6	3.5	2.5	2.9	1.0	4.2	6.6	4.6	2.2
8.....				5.6	3.4	2.4	3.0	1.1	4.0	6.3	4.5	1.9
9.....				5.2	3.3	2.4	2.9	1.2	3.9	6.2	4.4	1.9
10.....				5.0	3.5	2.4	2.9	1.5	4.2	6.0	4.3	1.8
11.....				4.8	3.2	1.8	2.8	2.2	4.4	5.9	4.2	2.4
12.....				4.5	3.0	1.8	2.8	2.8	5.3	5.8	4.1	3.6
13.....				4.3	2.9	1.9	3.0	2.9	5.8	5.7	4.0	3.5
14.....				4.2	2.8	1.9	3.0	3.5	5.7	5.7	3.8	2.8
15.....				4.1	2.8	1.5	2.8	3.7	5.5	5.4	3.5	1.8
16.....				4.0	2.8	1.5	2.8	4.0	5.3	5.3	2.7	2.6
17.....				4.4	2.8	1.4	2.6	4.2	5.2	5.3	2.1	2.4
18.....				4.6	2.9	1.3	2.5	4.3	5.1	5.3	2.0	2.7
19.....				4.8	2.9	1.3	2.3	4.2	5.0	5.2	2.0	3.3
20.....				4.6	2.6	1.2	2.2	4.0	5.2	5.1	2.1	3.0
21.....				4.4	2.5	1.2	2.2	3.8	5.5	5.0	2.1	2.7
22.....				4.2	2.7	1.2	2.2	3.7	5.7	4.8	2.1	2.4
23.....				4.0	2.8	1.2	2.2	3.7	5.9	4.8	2.0	2.3
24.....				4.0	2.8	1.2	2.1	3.9	5.9	4.6	1.9	2.2
25.....				4.0	2.8	1.0	1.8	4.1	6.0	4.5	1.6	Frozen.
26.....				3.9	2.7	1.0	1.5	4.5	6.0	4.5	1.3	.....
27.....				3.8	2.8	1.0	1.1	4.7	6.0	4.3	1.8	.....
28.....				3.8	2.8	0.9	1.1	5.0	6.0	4.5	2.1	.....
29.....				3.8	3.2	0.9	1.3	5.4	5.9	4.6	2.0	.....
30.....				3.7	3.3	0.8	1.0	5.5	5.8	4.5	2.0	.....
31.....					3.3		1.0	5.4		4.3		.....
<b>Means.</b>				4.2	3.1	1.8	2.2	3.1	5.2	5.4	3.1	2.4
<b>1901</b>												
1.....	Frozen.	Frozen.	Frozen.	5.4	6.0	5.0	6.0	3.8	2.6	2.6	2.7	2.0
2.....				5.6	6.0	4.9	6.3	3.7	2.8	2.6	2.7	2.1
3.....				5.6	6.1	4.8	6.4	3.4	2.7	2.6	2.8	1.8
4.....				5.8	6.1	4.8	6.5	3.3	2.7	2.7	2.7	Frozen.
5.....				6.1	6.8	4.7	6.5	3.1	2.6	2.7	2.7	.....
6.....				6.5	6.9	4.7	6.6	3.0	2.6	2.6	2.7	.....
7.....				6.4	7.1	4.5	6.7	3.0	2.6	2.4	2.6	.....
8.....				6.5	7.2	4.3	6.9	2.9	2.5	2.4	2.6	.....
9.....				6.8	7.3	4.2	7.0	2.8	2.4	2.4	2.5	.....
10.....				7.2	7.3	4.1	7.1	2.7	2.5	2.4	2.5	.....
11.....				7.3	7.3	4.2	7.2	2.6	2.6	2.5	2.5	.....
12.....				7.5	7.1	4.3	7.2	2.4	2.7	2.6	2.6	.....
13.....				7.2	7.0	4.3	7.2	2.3	2.5	2.6	2.5	.....
14.....				6.7	7.0	4.1	7.0	2.5	2.5	2.7	2.5	.....
15.....				6.5	6.9	4.3	6.9	2.7	2.4	2.9	2.5	.....
16.....				6.5	6.8	4.3	6.8	2.9	2.3	3.1	2.4	.....
17.....				6.7	6.7	4.1	6.7	2.9	2.3	3.0	1.9	.....
18.....				6.6	6.7	4.0	6.6	2.8	2.2	3.0	1.5	.....
19.....				6.6	6.6	4.0	6.4	2.7	2.1	2.9	1.6	.....
20.....				6.6	6.5	4.2	6.1	2.6	2.1	2.9	1.6	.....
21.....				6.5	6.4	4.4	5.8	2.6	2.1	2.9	1.6	.....
22.....				6.5	6.2	5.0	5.5	2.6	2.0	2.8	1.6	.....
23.....				6.5	6.2	5.5	5.3	2.5	2.0	2.8	1.7	.....
24.....				6.4	6.1	5.6	5.0	2.5	2.0	2.7	1.7	.....
25.....				5.4	6.4	5.9	5.7	4.8	2.5	2.1	1.3	.....
26.....				5.8	6.3	5.8	5.7	4.5	2.4	2.2	1.6	.....
27.....				5.7	6.3	5.6	5.7	4.3	2.5	2.3	1.5	.....
28.....				5.4	6.3	5.4	5.6	4.1	2.6	2.4	1.4	.....
29.....				5.2	6.2	5.3	6.1	4.0	2.5	2.6	1.3	.....
30.....				5.3	6.1	5.2	6.2	3.9	2.6	2.4	1.5	.....
31.....				5.3		5.1		3.9	2.6	2.7		.....
<b>Means.</b>				6.5	6.4	4.8	6.0	2.8	2.4	2.7	2.1	.....

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, ST. PAUL, MINN.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	Frozen.	Frozen.	Frozen.	2.1	1.9	6.3	4.7	3.4	1.5	1.9	2.4	3.4
2.....				2.1	2.0	6.1	4.6	3.1	1.6	2.0	2.4	3.1
3.....				2.2	1.9	6.0	4.4	2.9	2.0	2.0	2.5	3.0
4.....				2.2	2.1	6.1	4.3	2.6	2.4	2.1	2.6	Frozen.
5.....				2.1	2.1	6.4	4.2	2.6	2.7	2.1	2.7	
6.....				2.0	2.2	6.6	4.2	2.3	2.9	2.1	3.0	
7.....				1.8	2.2	6.7	4.0	2.3	3.1	2.2	3.2	
8.....				1.8	2.3	6.7	3.9	2.4	2.9	2.2	3.4	
9.....				1.9	2.4	6.8	3.9	2.4	3.0	2.2	3.5	
10.....			1.1	2.0	2.8	6.8	4.1	2.8	3.0	2.2	3.5	
11.....			1.2	1.9	4.1	6.7	4.3	2.4	2.9	2.2	3.5	
12.....			1.2	1.8	4.3	6.7	4.3	2.2	2.7	2.2	3.5	
13.....			1.2	1.7	4.5	6.7	4.3	2.2	2.5	2.0	3.6	
14.....			1.5	1.7	4.4	6.6	4.1	2.1	2.2	2.0	3.6	
15.....			1.8	1.6	4.3	6.4	3.9	2.1	2.0	2.0	3.6	
16.....			2.1	1.6	4.2	6.2	3.8	2.0	2.1	1.9	3.6	
17.....			Frozen.	1.7	4.2	6.1	4.0	2.0	2.2	1.9	3.7	
18.....				1.5	4.3	6.0	3.8	1.8	2.2	1.8	3.9	
19.....			1.5	1.4	4.3	5.8	3.5	1.7	2.1	1.8	4.1	
20.....			1.9	1.3	4.4	5.6	3.4	1.7	2.0	1.7	4.3	
21.....			2.1	1.2	4.4	5.5	3.0	1.6	2.2	1.7	4.5	
22.....			2.2	1.3	4.5	5.4	2.8	1.8	2.1	1.8	4.5	
23.....			2.2	1.3	5.6	5.2	2.6	1.8	2.2	1.8	4.6	
24.....			2.3	1.2	6.9	5.1	2.5	1.8	2.2	1.8	4.5	
25.....			2.6	1.2	7.4	5.1	2.5	1.5	2.1	1.8	4.5	
26.....			2.7	1.7	7.5	4.9	2.7	1.6	2.0	1.8	4.4	
27.....			2.8	1.8	7.5	4.8	2.8	1.6	2.0	1.8	4.4	
28.....			2.6	1.7	7.3	4.8	2.8	1.5	1.9	1.9	4.2	
29.....			2.4	1.7	7.0	4.8	2.9	1.4	1.8	2.1	3.8	
30.....			2.3	1.8	6.7	4.7	3.3	1.4	1.8	2.3	3.6	
31.....			2.1		6.5		3.4	1.4		2.3		
Means.....			2.0	1.7	4.4	5.9	3.6	2.1	2.3	2.0	3.7	
<b>1903</b>												
1.....	Frozen.	Frozen.	Frozen.	7.5	6.9	10.5	3.2	5.3	3.8	8.8	7.1	5.0
2.....				7.1	6.9	11.3	3.2	5.5	3.8	8.3	6.8	5.5
3.....				7.0	6.8	11.9	3.5	5.7	3.9	8.0	6.5	5.6
4.....				7.0	6.8	11.9	4.5	6.0	4.0	8.0	6.2	5.6
5.....				7.0	6.8	11.5	5.9	6.1	4.2	8.0	6.1	5.3
6.....				6.9	6.9	10.8	6.4	6.2	4.2	8.3	6.1	5.4
7.....				7.2	7.0	10.2	6.7	6.2	4.2	9.5	6.1	5.2
8.....				7.2	7.1	9.5	6.7	6.3	4.3	10.8	6.0	5.0
9.....				7.1	7.2	8.9	6.7	6.2	4.4	11.6	6.0	4.8
10.....				6.9	7.1	8.3	7.0	6.0	4.4	12.2	5.8	Frozen.
11.....				7.1	7.1	7.6	7.3	5.8	4.3	12.7	5.5	
12.....				7.4	7.6	6.8	7.6	5.6	4.6	13.0	5.4	
13.....				7.8	8.3	6.0	7.7	5.3	7.3	13.3	5.4	
14.....			5.6	8.1	9.0	5.5	7.5	5.1	8.6	13.5	5.4	
15.....			6.0	8.4	9.6	5.4	7.2	5.0	9.4	13.4	5.4	
16.....			6.1	8.6	10.1	5.3	7.0	4.9	10.0	13.1	5.3	
17.....			6.3	8.8	10.4	5.1	7.0	4.8	10.5	12.8	5.2	
18.....			6.2	8.9	10.8	4.8	7.0	4.8	10.8	12.5	5.0	
19.....			6.3	8.8	10.9	4.6	6.5	4.8	11.1	12.1	4.6	
20.....			7.1	8.7	10.8	4.5	6.2	4.8	11.5	11.6	3.8	
21.....			7.4	8.5	10.6	4.4	6.0	4.8	11.7	11.1	3.2	
22.....			7.7	8.2	10.4	4.3	5.9	4.8	11.9	10.7	3.0	
23.....			7.7	7.9	10.1	4.2	5.9	4.6	11.9	10.2	3.0	
24.....			7.9	7.8	9.6	4.1	5.8	4.5	11.9	9.8	3.3	
25.....			8.1	7.5	9.4	3.9	5.7	4.3	11.7	9.4	3.6	
26.....			8.3	7.3	9.3	3.8	5.4	4.1	11.3	9.0	4.0	
27.....			8.3	7.2	9.3	3.7	5.4	3.9	10.9	8.6	4.6	
28.....			8.3	7.2	9.5	3.6	5.2	3.8	10.4	8.3	5.2	
29.....			8.1	7.1	9.5	3.6	5.1	4.0	9.9	8.0	5.5	
30.....			7.8	7.1	9.5	3.4	5.1	4.1	9.3	7.6	5.0	
31.....			7.7		9.8		5.2	3.9		7.3		
Means.....			7.3	7.6	8.7	6.6	6.0	5.1	8.0	10.4	5.1	

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, ST. PAUL, MINN.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1904</b>												
1.....	Frozen.	Frozen.	Frozen.	5.8	8.3	5.7	5.2	3.5	2.9	3.2	6.5	3.2
2.....				5.6	8.2	5.6	5.2	3.5	2.8	3.5	6.2	3.0
3.....				5.5	8.0	5.7	5.1	3.4	3.6	3.6	5.9	2.8
4.....				5.8	7.8	5.9	5.1	3.3	4.2	3.7	5.6	2.7
5.....				6.2	7.5	6.2	5.0	3.2	4.4	3.5	5.5	2.6
6.....				6.5	7.4	6.3	4.9	3.2	4.6	3.4	5.4	2.6
7.....				8.4	7.4	6.8	4.8	3.1	5.1	3.4	5.4	2.7
8.....				8.8	7.5	7.2	4.8	2.9	5.2	3.6	5.3	3.0
9.....				9.0	7.4	7.5	4.8	2.9	5.2	3.7	5.0	3.2
10.....				9.7	7.3	7.7	5.0	3.0	5.2	4.0	4.7	3.5
11.....				9.9	7.2	7.8	4.9	3.0	5.2	4.2	4.8	3.7
12.....				9.9	7.4	7.7	4.7	3.0	5.0	5.8	4.8	3.7
13.....				9.8	7.5	7.6	4.5	3.0	4.7	6.0	4.6	Frozen.
14.....				9.6	7.4	7.5	4.4	3.0	4.3	6.0	4.5	.....
15.....				9.4	7.3	7.3	4.2	3.0	3.9	6.4	4.5	.....
16.....				9.4	7.2	6.9	4.1	2.9	3.8	6.7	4.4	.....
17.....				9.2	7.0	6.6	4.0	2.8	3.7	6.9	4.3	.....
18.....				8.9	6.8	6.3	3.9	2.7	3.6	6.8	4.1	.....
19.....				8.7	6.7	5.9	3.9	2.6	3.4	6.8	4.1	.....
20.....				8.5	6.6	5.6	3.9	2.9	3.3	7.0	4.0	.....
21.....				8.4	6.4	5.4	3.8	3.1	3.1	7.1	3.9	.....
22.....				8.2	6.3	5.3	3.7	3.2	3.0	7.5	3.9	.....
23.....				8.2	6.2	5.1	3.8	3.5	2.9	7.7	3.8	.....
24.....				8.1	6.1	5.0	3.8	3.7	2.9	7.5	3.8	.....
25.....				8.1	6.1	5.0	3.7	3.8	2.9	7.6	3.8	.....
26.....				8.1	6.1	4.9	3.6	3.7	2.8	7.7	3.8	.....
27.....				8.4	6.1	5.0	3.5	3.8	2.8	7.8	3.7	.....
28.....				8.5	6.2	5.1	3.4	3.8	3.0	7.8	3.7	.....
29.....			5.7	8.6	6.2	5.3	3.3	3.8	3.0	7.5	3.6	.....
30.....			5.6	8.5	6.0	5.2	3.4	3.5	2.9	7.2	3.4	.....
31.....			6.0	.....	5.8	.....	3.5	.....	.....	6.8	.....	.....
Means.....				8.3	6.9	6.2	4.3	3.2	3.8	5.8	4.6	.....

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, RED WING, MINN.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	Frozen.	Frozen.	Frozen.	.....	4.1	2.5	0.7	1.9	5.1	6.2	4.7	1.8
2.....				.....	3.8	2.5	0.7	1.8	5.0	6.2	4.9	1.8
3.....				2.4	3.5	2.5	0.7	1.9	4.9	6.2	5.2	1.8
4.....				2.4	3.4	2.5	0.7	1.7	4.7	6.5	5.6	1.8
5.....				2.9	3.4	2.5	0.7	1.7	4.3	6.8	6.2	1.8
6.....				3.1	3.4	1.9	1.0	1.7	4.3	7.3	6.5	1.8
7.....				3.4	3.4	1.9	1.8	1.6	4.3	8.0	6.5	1.8
8.....				3.7	3.1	1.9	2.4	1.5	4.3	8.4	6.5	1.8
9.....				4.0	2.9	1.9	2.9	1.4	4.4	8.6	6.1	1.8
10.....				4.3	2.8	1.9	3.1	1.4	4.4	8.6	5.8	1.8
11.....				4.5	2.8	2.1	3.4	1.4	4.4	8.4	5.5	1.8
12.....				4.6	2.5	2.1	3.4	2.0	4.6	8.1	5.2	Frozen.
13.....				4.6	2.5	2.1	3.5	2.6	5.0	7.8	4.8	.....
14.....				4.4	2.8	1.9	3.4	2.9	5.8	7.3	4.5	.....
15.....				4.2	2.8	1.9	3.4	3.4	6.5	7.0	4.1	.....
16.....				4.0	2.8	1.9	3.4	3.8	7.3	6.6	4.1	.....
17.....				3.8	2.8	1.9	3.3	4.0	7.5	6.2	3.8	.....
18.....				3.7	2.7	1.5	3.2	4.3	7.5	5.9	3.6	.....
19.....				3.8	2.5	1.5	3.2	4.3	7.2	5.8	3.4	.....
20.....				4.3	2.5	1.5	3.1	4.3	6.8	5.5	3.1	.....
21.....				4.9	2.5	1.5	3.1	4.2	6.4	5.2	2.8	.....
22.....				5.6	2.5	1.5	3.2	4.1	6.3	4.9	2.5	.....
23.....				6.1	2.5	1.5	3.2	4.2	6.2	4.8	2.3	.....
24.....				6.2	2.5	1.5	3.0	4.3	6.4	4.5	2.1	.....
25.....				5.9	2.5	1.5	2.9	4.3	6.3	4.5	2.1	.....
26.....				5.6	2.5	0.9	2.7	4.6	6.1	4.3	2.1	.....
27.....				5.2	2.5	0.9	2.6	4.9	6.1	4.3	2.0	.....
28.....				4.8	2.5	0.9	2.5	5.1	5.9	4.3	1.8	.....
29.....				4.6	2.5	0.9	2.4	5.3	6.4	4.3	1.8	.....
30.....				4.4	2.5	0.7	2.3	5.3	6.3	4.2	1.8	.....
31.....				.....	2.5	.....	2.1	5.3	.....	4.4	.....	.....
Means.....				4.3	2.8	1.7	2.5	3.3	5.7	6.2	4.0	.....

## DESCRIPTION OF RIVER GAGES, ETC.

MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, RED WING, MINN.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	Frozen.	Frozen.	Frozen.	5.3	5.5	4.1	5.8	3.2	1.7	1.6	1.8	1.5
2.....				5.4	5.4	4.0	5.9	3.1	1.7	1.6	1.8	1.5
3.....				5.5	5.3	3.8	6.0	3.1	1.7	1.6	1.8	1.5
4.....				5.6	5.2	3.6	6.0	3.1	1.7	1.8	1.8	1.5
5.....				5.8	5.5	3.5	6.0	3.0	1.7	1.8	1.8	Frozen.
6.....				6.0	5.8	3.4	5.9	3.0	1.7	1.9	1.8	
7.....				6.4	5.8	3.2	6.0	2.9	1.7	2.0	1.8	
8.....				6.9	5.8	3.2	6.1	2.7	1.7	2.0	1.8	
9.....				7.4	5.6	3.2	6.3	2.6	1.7	2.0	1.8	
10.....				7.5	5.6	3.2	6.4	2.5	1.7	2.0	1.8	
11.....				7.7	5.5	3.2	6.5	2.5	1.7	2.0	1.8	
12.....				7.8	5.5	3.2	6.5	2.5	1.7	2.0	1.8	
13.....				7.8	5.4	3.2	6.4	2.3	1.7	2.0	1.8	
14.....				7.8	5.4	3.2	6.3	2.3	1.6	2.0	1.8	
15.....				7.7	5.3	3.2	6.2	2.2	1.6	2.0	1.8	
16.....				7.6	5.2	3.2	6.0	2.1	1.6	2.1	1.8	
17.....				7.5	5.1	3.2	5.8	2.1	1.6	2.1	1.8	
18.....				7.4	5.0	3.3	5.5	2.2	1.6	2.2	1.7	
19.....				7.4	5.0	3.4	5.1	2.4	1.6	2.2	1.7	
20.....				7.4	5.0	3.5	5.0	2.4	1.6	2.2	1.7	
21.....				7.4	5.0	3.7	4.7	2.4	1.6	2.2	1.6	
22.....				7.4	5.0	3.8	4.6	2.2	1.6	2.2	1.6	
23.....				7.2	5.0	3.9	4.4	2.1	1.6	2.2	1.6	
24.....				7.2	4.9	4.1	4.0	1.9	1.6	2.2	1.6	
25.....				6.8	4.8	4.3	3.9	1.8	1.6	2.1	1.5	
26.....				6.7	4.6	4.6	3.7	1.7	1.6	2.0	1.5	
27.....				6.4	4.5	4.7	3.6	1.7	1.6	2.0	1.5	
28.....				6.2	4.4	5.0	3.5	1.7	1.6	2.0	1.5	
29.....			5.0	6.0	4.4	5.4	3.5	1.7	1.6	2.0	1.5	
30.....			5.0	5.7	4.2	5.6	3.4	1.7	1.6	2.0	1.5	
31.....			5.3		4.2		3.2	1.7		1.9		
<b>Means.</b>				6.8	5.1	3.8	5.2	2.3	1.6	2.0	1.7	
<b>1902</b>												
1.....	Frozen.	Frozen.	Frozen.	2.6	3.5	5.4	4.3	3.4	1.7	1.1	1.3	3.6
2.....				2.5	3.7	5.4	4.3	3.3	1.7	1.1	1.7	3.4
3.....				2.5	4.1	5.4	4.3	3.3	1.5	1.1	2.2	3.0
4.....				2.5	4.3	5.3	4.3	3.2	1.5	1.1	2.3	3.0
5.....				2.4	4.4	5.3	4.5	3.0	1.5	1.2	2.2	Frozen.
6.....				2.2	4.6	5.3	4.4	2.8	1.5	1.3	2.5	
7.....				1.9	4.7	5.4	4.4	2.6	1.5	1.3	2.5	
8.....				1.9	4.7	5.4	4.4	2.6	1.5	1.4	2.7	
9.....				1.8	4.7	5.4	4.4	2.7	1.5	1.4	2.7	
10.....				1.8	4.8	5.8	4.4	2.6	1.5	1.4	2.8	
11.....			1.5	1.7	4.6	5.8	5.0	2.6	1.5	1.4	2.8	
12.....			1.5	1.6	4.6	5.8	5.8	2.6	1.5	1.2	2.9	
13.....			1.5	1.6	4.6	6.0	5.3	2.6	1.5	1.3	3.0	
14.....			1.7	1.5	4.7	6.0	4.9	2.6	1.5	1.2	3.0	
15.....			1.9	1.4	4.9	5.7	4.9	2.5	1.5	1.2	3.6	
16.....			1.9	1.4	5.0	5.7	4.9	2.5	1.4	1.2	4.0	
17.....			Frozen.	1.4	5.1	5.6	4.5	2.4	1.3	1.2	4.6	
18.....			Frozen.	1.4	5.0	5.6	4.4	2.4	1.2	1.1	5.2	
19.....				1.4	5.0	5.2	4.5	2.4	1.2	1.1	5.8	
20.....				1.4	4.9	4.9	4.5	2.4	1.2	1.1	5.8	
21.....				1.7	4.8	4.8	4.5	2.3	1.1	1.1	5.5	
22.....			2.4	1.3	4.8	4.7	4.5	2.3	1.1	1.1	5.3	
23.....			2.5	1.3	4.7	4.6	4.6	2.3	1.0	1.1	5.1	
24.....			2.7	1.3	4.7	4.4	4.6	2.2	1.1	1.1	4.8	
25.....			2.8	1.2	5.0	4.4	4.6	2.2	1.1	1.1	4.5	
26.....			2.8	1.1	5.2	4.3	4.6	2.1	1.0	1.2	4.5	
27.....			2.7	1.1	5.5	4.3	4.2	2.0	1.0	1.2	4.4	
28.....			2.7	1.3	5.6	4.3	4.0	2.0	1.1	1.2	4.3	
29.....			2.7	1.7	5.6	4.3	4.0	1.9	1.1	1.2	4.2	
30.....			2.6	2.7	5.5	4.3	3.8	2.0	1.1	1.3	3.9	
31.....			2.6		5.4		3.6	1.0		1.3		
<b>Means.</b>			2.3	1.7	4.8	5.2	4.5	2.5	1.3	1.2	3.7	

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, RED WING, MINN.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1	Frozen.	Frozen.	Frozen.	7.3	6.6	10.3	3.0	4.2	3.4	8.6	7.3	3.3
2				7.0	7.0	10.1	3.0	4.2	3.4	8.1	7.1	3.2
3				6.8	7.4	9.9	3.3	4.2	3.3	7.9	6.8	3.2
4				6.7	7.7	9.7	4.2	4.2	3.5	7.7	6.4	3.2
5				6.8	7.9	9.6	5.0	4.6	3.5	7.6	6.0	3.1
6				6.8	8.0	9.4	5.8	4.8	3.6	7.9	5.7	3.1
7				6.7	8.1	9.1	6.5	5.1	3.7	8.3	5.4	3.1
8				6.7	8.1	8.8	7.2	5.1	3.7	8.7	5.2	3.1
9				6.6	8.0	8.3	7.6	5.6	3.6	9.4	5.0	3.0
10				6.8	7.9	8.0	7.7	5.7	3.8	10.0	4.9	Frozen.
11				6.9	7.8	7.6	7.6	5.7	4.0	10.2	4.8	
12				7.3	7.8	7.2	7.5	5.6	5.5	10.4	4.7	
13				7.1	8.0	6.8	7.4	5.5	6.6	10.6	4.7	
14				7.5	8.4	6.5	7.3	5.3	7.6	10.8	4.6	
15				7.7	8.9	6.3	7.1	5.2	8.6	11.0	4.6	
16				8.0	9.5	5.8	6.9	5.1	9.8	10.8	4.5	
17			4.5	8.1	9.8	5.4	6.7	5.0	10.8	10.6	4.4	
18			4.9	8.2	10.0	5.1	6.5	4.7	11.5	10.4	4.4	
19			5.4	8.1	10.0	4.9	6.4	4.6	11.9	10.3	4.4	
20			5.9	7.0	9.9	4.6	6.3	4.3	11.7	10.1	4.3	
21			6.6	7.8	9.7	4.4	6.2	4.3	11.5	9.9	4.2	
22			7.4	7.6	9.5	4.2	5.7	4.1	11.2	9.6	4.0	
23			7.9	7.4	9.4	4.0	5.4	4.1	10.8	9.4	3.8	
24			8.2	7.2	9.3	4.0	5.2	4.2	10.5	9.2	3.6	
25			8.3	7.0	9.2	3.9	4.9	4.0	10.3	9.0	3.6	
26			8.2	6.9	9.2	3.6	4.9	3.8	9.9	8.8	3.5	
27			8.1	6.9	9.4	3.3	4.9	3.7	9.7	8.6	3.5	
28			7.9	6.6	9.6	3.0	4.8	3.6	9.5	8.4	3.4	
29			7.7	6.7	9.9	3.0	4.6	3.5	9.1	8.1	3.4	
30			7.6	6.6	10.0	3.0	4.3	3.5	8.9	7.8	3.3	
31			7.4		10.3		4.3	3.4		7.5		
Means.			7.1	7.5	8.8	6.3	5.7	4.5	7.5	9.2	4.7	
<b>1904</b>												
1	Frozen.	Frozen.	Frozen.	Frozen.	7.7	6.8	4.7	2.4	2.2	3.3	7.0	Frozen
2					7.5	6.6	4.7	2.4	2.3	3.3	6.7	
3					7.5	6.4	4.5	2.5	2.3	3.3	6.4	
4					7.3	6.2	4.5	2.3	2.6	3.2	6.3	
5					7.2	6.2	4.8	2.1	3.0	3.3	5.8	
6					7.1	6.3	4.9	2.0	3.7	3.2	5.5	
7					6.9	6.5	5.1	2.0	4.0	3.2	5.2	
8					7.3	7.2	5.2	2.0	4.2	3.1	5.0	
9					7.3	7.7	5.0	2.0	4.3	3.5	4.6	
10					7.2	7.9	4.9	2.0	4.3	3.8	4.6	
11					7.0	8.0	4.8	2.0	4.3	4.4	4.5	
12					7.0	7.8	4.6	2.0	4.3	5.2	4.4	
13					7.0	7.6	4.5	2.0	4.1	6.2	4.2	
14					6.9	7.5	4.3	1.9	3.7	7.1	4.0	
15					6.9	7.3	4.1	1.9	3.7	7.6	3.8	
16					6.9	7.0	3.9	1.8	3.4	7.7	3.8	
17					6.9	6.8	3.7	1.7	3.2	7.5	3.7	
18					6.5	6.5	3.6	1.6	3.1	7.4	3.6	
19					6.3	6.2	3.5	1.6	3.1	7.2	3.6	
20					6.2	5.9	3.4	1.6	2.8	6.9	3.5	
21					6.0	5.5	3.1	1.8	2.8	6.7	3.4	
22				6.2	5.9	5.3	3.1	1.8	2.7	6.7	3.2	
23				6.1	5.7	5.1	3.1	1.9	2.4	7.1	3.1	
24				7.4	5.6	5.1	3.0	2.1	2.3	7.3	3.0	
25				7.2	5.5	4.9	2.9	2.0	2.3	7.1	2.9	
26				7.3	5.6	5.0	2.7	2.2	2.4	7.7	2.8	
27				7.4	5.6	5.2	2.6	2.2	2.7	7.7	2.8	
28				7.6	6.0	4.7	2.5	2.3	3.0	7.6	2.9	
29				7.7	6.3	4.6	2.3	2.4	3.0	7.5	2.5	
30				7.7	6.8	4.6	2.3	2.4	3.1	7.3	2.2	
31					7.0		2.3	2.3		7.2		
Means.					5.1	4.8	2.3	1.5	3.2	5.8	4.2	

Gauge made unserviceable by ice during winter. River open April 7 to April 21, 1904, inclusive.

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, REEDS LANDING, MINN.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1100</b>												
1.....	0.8	0.1	-0.7	1.3	4.1	1.7	0.1	1.8	4.6	5.8	4.6	1.8
2.....	0.9	0.1	-0.8	1.4	3.9	1.7	0.1	1.7	4.5	5.6	4.8	1.9
3.....	1.0	0.0	-0.9	1.5	3.7	1.7	0.1	1.4	4.5	5.6	5.0	1.9
4.....	0.9	0.0	-0.9	2.3	3.4	1.6	0.1	1.3	4.2	5.9	5.6	1.8
5.....	0.9	0.0	-0.9	2.7	3.2	1.5	0.3	1.2	4.1	6.4	6.1	1.9
6.....	0.7	0.1	-0.9	2.8	3.1	1.5	0.8	1.3	4.1	6.8	6.4	1.9
7.....	0.6	0.1	-0.9	3.1	3.0	1.5	1.3	1.4	4.0	8.0	6.3	1.9
8.....	0.5	0.0	-0.9	3.3	3.0	1.5	2.0	1.4	3.9	8.5	6.2	1.9
9.....	0.5	0.0	-0.9	3.6	2.8	1.4	2.5	1.3	3.9	8.5	5.8	1.9
10.....	0.4	0.0	-0.8	4.0	2.6	1.7	2.8	1.1	3.9	8.4	5.5	1.6
11.....	0.4	-0.2	-0.8	4.3	2.4	1.7	2.9	1.0	3.8	8.1	5.2	1.4
12.....	0.4	-0.3	-0.8	4.6	2.4	1.7	2.9	1.4	4.3	7.8	4.9	1.3
13.....	0.4	-0.3	-0.8	4.6	2.4	1.6	2.8	2.1	4.8	7.4	4.6	1.2
14.....	0.3	-0.4	-0.7	4.3	2.6	1.5	2.9	2.6	5.3	7.0	4.2	1.1
15.....	0.3	-0.4	-0.6	4.0	2.7	1.4	2.9	2.9	6.1	6.6	4.0	Frozen.
16.....	0.3	-0.5	-0.6	3.8	2.6	1.3	3.0	3.4	7.3	6.1	3.7	-----
17.....	0.3	-0.5	-0.6	3.4	2.6	1.1	3.0	3.6	7.3	5.8	3.4	-----
18.....	0.3	-0.6	-0.5	3.7	2.4	1.0	2.9	3.7	7.1	5.5	3.2	0.8
19.....	0.3	-0.6	-0.5	3.7	2.3	0.8	2.8	3.8	6.8	5.2	3.0	0.8
20.....	0.3	-0.7	-0.4	4.2	2.3	0.7	2.8	3.9	6.5	5.1	2.8	0.9
21.....	0.2	-0.7	-0.4	5.0	2.4	0.6	2.8	3.8	6.0	4.9	2.8	1.0
22.....	0.1	-0.8	-0.3	5.9	2.3	0.6	2.9	3.6	5.7	4.6	2.5	0.9
23.....	0.1	-0.9	-0.3	6.2	2.2	0.6	2.9	3.7	5.5	4.5	2.5	0.9
24.....	0.1	-1.0	-0.2	6.1	2.1	0.6	2.9	3.8	5.3	4.2	2.3	1.0
25.....	0.1	-0.9	-0.2	5.8	1.9	0.6	2.7	3.9	5.6	3.9	2.2	0.9
26.....	0.1	-0.8	-0.1	5.6	1.9	0.5	2.5	4.3	5.8	3.9	2.1	0.8
27.....	0.1	-0.7	-0.1	5.1	1.9	0.5	2.3	4.6	5.8	3.8	2.0	0.7
28.....	0.2	-0.7	0.0	4.8	2.0	0.6	2.1	4.7	5.8	4.0	2.0	0.6
29.....	0.2	-----	0.1	4.6	1.9	0.3	2.1	4.8	6.0	4.0	2.0	0.6
30.....	0.2	-----	0.6	4.3	1.9	0.2	2.1	4.8	6.0	3.9	1.9	0.7
31.....	0.2	-----	1.0	-----	1.8	-----	1.9	4.7	-----	4.0	-----	0.7
<b>Means.</b>	0.4	-0.4	-0.5	4.0	2.6	1.1	2.1	2.9	5.3	5.8	3.9	1.2
<b>1901</b>												
1.....	Frozen.	Frozen.	-0.8	4.6	5.0	3.7	5.2	2.9	1.4	1.4	1.5	0.8
2.....	-----	-----	-0.7	5.0	4.9	3.5	5.2	3.1	1.3	1.5	1.4	0.7
3.....	1.3	-----	-0.6	5.1	4.8	3.3	5.2	2.9	1.3	1.6	1.6	0.7
4.....	1.2	-----	-0.5	5.1	4.9	3.2	5.2	2.8	1.3	1.7	1.7	0.7
5.....	1.1	-----	-0.4	5.2	5.1	3.0	5.4	2.9	1.2	1.8	1.6	0.7
6.....	1.0	-----	-0.3	5.6	5.2	3.0	5.6	2.7	1.2	2.0	1.5	0.6
7.....	1.0	-----	-0.2	6.0	5.1	3.0	5.3	2.6	1.1	2.2	1.9	0.4
8.....	1.0	-----	0.0	6.4	5.1	2.9	5.5	2.4	1.1	2.2	1.7	0.4
9.....	1.0	-----	0.1	6.8	5.0	2.8	5.7	2.3	1.2	2.2	1.8	0.4
10.....	1.1	-----	0.3	7.0	5.0	2.8	5.8	2.2	1.3	2.1	1.8	0.4
11.....	1.0	-----	0.4	7.1	5.0	2.8	5.8	2.2	1.2	2.0	1.8	0.2
12.....	0.9	-0.7	0.5	7.1	5.0	2.8	5.7	2.4	1.3	2.0	1.8	0.2
13.....	0.9	-0.7	0.5	7.1	4.9	2.8	5.6	2.3	1.2	2.0	1.7	0.2
14.....	1.0	-0.8	0.5	7.1	4.8	2.8	5.6	2.2	1.2	1.9	1.7	0.2
15.....	0.9	-0.8	0.5	7.0	4.7	2.7	5.5	2.1	1.3	2.1	1.7	0.2
16.....	0.8	-0.8	0.5	6.9	4.6	2.8	5.4	2.0	1.4	2.2	1.5	0.1
17.....	0.8	-0.8	0.6	6.9	4.5	2.9	5.2	2.0	1.4	2.2	1.5	0.1
18.....	0.8	-0.8	0.7	6.8	4.5	2.9	5.1	2.0	1.3	2.0	1.4	0.1
19.....	0.7	-0.7	0.8	6.7	4.5	3.0	4.9	2.2	1.2	2.0	1.3	0.0
20.....	0.7	-0.7	1.1	6.7	4.5	3.2	4.6	2.1	1.1	2.0	1.2	-0.1
21.....	0.8	-0.7	1.2	6.8	4.5	3.4	4.2	1.9	1.0	2.0	1.1	-0.1
22.....	0.7	-0.7	1.3	6.8	4.5	3.5	4.3	1.8	1.0	2.0	1.0	-0.1
23.....	0.7	-0.7	1.4	6.7	4.4	3.5	4.0	1.6	1.1	1.9	1.0	-0.1
24.....	0.6	-0.8	1.5	6.4	4.3	3.6	3.7	1.5	0.9	1.9	1.0	-0.2
25.....	0.5	-0.8	2.0	6.1	4.3	3.8	3.4	1.5	0.9	1.8	1.0	-0.2
26.....	0.4	-0.8	2.7	5.9	4.2	3.9	3.4	1.4	1.0	1.8	1.0	-0.2
27.....	0.3	-0.9	3.2	5.6	4.2	4.1	3.3	1.4	1.0	1.7	0.9	-0.2
28.....	0.2	-0.9	3.6	5.4	4.0	4.3	3.3	1.3	1.2	1.6	0.9	-0.2
29.....	0.3	-----	4.0	5.4	4.0	4.8	3.4	1.5	1.2	1.6	0.8	-0.3
30.....	0.2	-----	4.1	5.1	3.9	5.0	3.2	1.5	1.2	1.5	0.8	-0.3
31.....	0.2	-----	4.3	-----	3.8	-----	3.0	1.4	-----	1.6	-----	-0.4
<b>Means.</b>	0.8	-0.8	1.0	6.2	4.6	3.0	4.7	2.1	1.2	1.9	1.4	0.2



## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, REEDS LANDING, MINN.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	-0.4	-0.4	-0.1	2.3	3.0	4.7	3.6	2.2	1.5	1.0	1.5	3.3
2.....	-0.4	-0.4	0.0	2.2	3.5	4.7	3.4	2.1	1.4	1.0	2.0	3.0
3.....	-0.4	-0.4	0.2	2.1	3.8	4.6	3.5	2.0	1.5	1.0	1.9	3.0
4.....	-0.4	-0.4	0.3	2.0	4.0	4.4	3.5	2.0	1.3	1.0	2.0	2.6
5.....	-0.4	-0.4	0.3	1.9	4.1	4.2	3.8	1.9	1.1	1.0	2.0	2.3
6.....	-0.4	-0.4	0.4	1.9	4.3	4.4	3.8	1.7	1.2	1.0	2.2	2.2
7.....	-0.4	-0.4	0.5	1.7	4.4	4.5	3.9	1.7	1.2	1.1	2.2	1.9
8.....	-0.4	-0.5	0.5	1.5	4.5	4.9	4.0	1.5	1.2	1.1	2.3	Frozen.
9.....	-0.4	-0.5	0.5	1.5	4.3	5.0	4.3	1.4	1.3	1.0	2.6	.....
10.....	-0.4	-0.5	0.6	1.5	4.1	5.1	4.5	1.4	1.2	1.0	2.5	0.9
11.....	-0.4	-0.5	0.7	1.5	4.2	5.3	4.7	1.4	1.3	1.0	2.5	0.8
12.....	-0.4	-0.5	0.9	1.3	4.1	5.1	4.6	1.2	1.3	1.0	2.6	0.7
13.....	-0.4	-0.5	1.1	1.3	4.1	5.2	4.4	1.2	1.2	0.9	2.8	0.7
14.....	-0.4	-0.5	1.3	1.1	4.3	5.1	4.4	1.2	1.2	0.9	2.9	0.6
15.....	-0.4	-0.5	1.4	1.0	4.4	5.2	4.2	1.2	1.1	0.8	3.3	0.6
16.....	-0.4	-0.5	1.8	1.0	4.5	5.1	4.0	1.1	1.0	0.8	3.9	0.7
17.....	-0.4	-0.5	1.8	1.1	4.5	4.8	3.9	1.1	1.0	0.8	4.5	0.7
18.....	-0.4	-0.6	1.5	1.1	4.6	4.6	3.7	1.1	1.0	0.8	5.1	0.7
19.....	-0.4	-0.6	1.4	1.2	4.6	4.5	3.6	1.0	0.9	0.8	5.4	0.8
20.....	-0.4	-0.6	1.5	1.0	4.4	4.3	3.6	1.0	0.7	0.8	5.4	0.9
21.....	-0.4	-0.6	1.6	1.0	4.3	4.1	3.6	0.9	0.8	0.8	5.2	1.1
22.....	-0.4	-0.6	1.9	0.9	4.3	4.1	3.4	0.9	0.8	0.9	5.1	1.1
23.....	-0.4	-0.6	2.1	1.0	4.1	4.0	3.2	0.8	0.8	0.8	4.7	1.1
24.....	-0.4	-0.5	2.2	0.7	4.1	3.8	3.0	0.7	0.8	1.0	4.6	Frozen.
25.....	-0.4	-0.5	2.2	0.7	4.5	3.8	2.9	0.7	0.9	0.7	4.3	.....
26.....	-0.4	-0.5	2.2	1.1	4.9	3.8	2.8	0.7	0.9	1.0	4.2	.....
27.....	-0.4	-0.3	2.3	1.2	4.9	3.7	2.8	0.6	1.2	1.1	4.0	.....
28.....	-0.4	-0.2	2.3	1.4	4.9	3.7	2.7	0.5	1.1	1.0	3.7	.....
29.....	-0.4	.....	2.3	2.1	4.9	3.8	2.6	0.5	1.0	1.0	3.9	.....
30.....	-0.4	.....	2.3	2.6	4.8	3.8	2.5	0.7	1.1	1.3	3.4	.....
31.....	-0.4	.....	2.4	.....	4.7	.....	2.4	1.4	.....	1.3	.....	.....
<b>Means.</b>	-0.4	-0.5	1.3	1.4	4.3	4.5	3.6	1.2	1.1	1.0	3.4	1.4
<b>1903</b>												
1.....	Frozen.	0.6	Frozen.	6.5	6.1	9.7	2.9	3.8	3.2	7.7	6.0	2.3
2.....	.....	0.4	.....	6.4	6.6	9.5	2.9	3.9	3.3	7.3	5.8	2.3
3.....	.....	0.4	.....	6.3	7.0	9.2	3.2	3.9	3.3	7.3	5.6	2.2
4.....	.....	0.4	.....	6.0	7.3	8.9	3.8	4.0	3.3	7.0	5.4	2.1
5.....	.....	0.4	.....	6.0	7.4	8.6	5.0	4.4	3.3	7.1	5.2	2.1
6.....	.....	0.4	.....	6.0	7.5	8.4	5.5	4.6	3.3	7.2	4.9	2.1
7.....	.....	0.3	.....	6.0	7.5	8.2	6.3	4.8	3.3	7.9	4.7	2.1
8.....	.....	0.2	.....	6.0	7.4	7.9	7.0	5.1	3.5	8.3	4.6	2.0
9.....	.....	0.2	.....	6.0	7.2	7.5	7.2	5.3	3.6	8.6	4.5	2.0
10.....	.....	0.2	.....	6.0	7.1	7.2	7.3	5.5	3.6	9.0	4.4	Frozen.
11.....	.....	0.2	.....	6.2	7.1	6.9	7.2	5.4	3.9	9.4	4.4	.....
12.....	.....	0.2	.....	6.4	7.0	6.4	7.1	5.2	5.0	9.7	4.2	1.6
13.....	.....	0.2	.....	6.5	7.2	6.2	7.1	5.2	6.2	9.9	4.2	1.5
14.....	.....	0.2	2.4	6.7	7.6	5.9	6.9	5.0	7.2	9.8	4.1	1.5
15.....	.....	0.2	3.0	6.8	8.1	5.7	6.7	4.9	8.1	9.7	4.1	1.4
16.....	.....	0.2	3.5	7.0	8.6	5.3	6.5	4.9	9.4	9.6	4.2	1.3
17.....	.....	0.4	3.9	7.1	8.9	5.0	6.3	4.8	10.4	9.5	4.1	1.3
18.....	.....	0.6	4.3	7.2	9.0	4.7	6.3	4.6	11.0	9.2	3.8	1.3
19.....	.....	0.8	4.8	7.2	8.9	4.4	6.0	4.5	11.0	9.0	3.4	1.4
20.....	.....	0.5	5.3	7.0	8.8	4.2	5.8	4.5	10.9	8.8	3.0	1.4
21.....	.....	0.2	6.0	7.0	8.8	4.1	5.6	4.1	10.6	8.6	2.8	1.4
22.....	.....	0.2	6.8	6.7	8.4	4.0	5.3	4.0	10.2	8.4	2.6	1.4
23.....	.....	0.2	7.4	6.6	8.4	3.8	5.0	3.8	10.0	8.0	2.7	1.4
24.....	.....	0.0	7.6	6.4	8.3	3.5	4.8	3.8	9.5	7.8	2.5	1.4
25.....	.....	0.0	7.7	6.2	8.2	3.3	4.5	3.9	9.2	7.6	2.5	1.4
26.....	.....	0.4	7.5	6.0	8.3	3.1	4.5	3.6	8.8	7.3	2.5	1.4
27.....	0.4	0.0	7.2	6.0	8.6	2.9	4.5	3.5	8.5	7.1	2.5	1.4
28.....	0.4	0.0	7.1	5.9	8.8	2.9	4.4	3.4	8.4	6.9	2.5	1.3
29.....	0.4	.....	7.7	6.0	9.0	2.9	4.3	3.4	8.0	6.5	2.5	1.3
30.....	0.4	.....	6.8	6.0	9.3	2.8	4.1	3.3	7.8	6.4	2.5	1.3
31.....	0.4	.....	6.7	.....	9.7	.....	4.0	3.3	.....	6.2	.....	1.3
<b>Means.</b>	.....	0.3	5.9	6.4	8.0	5.8	5.4	4.3	6.9	8.1	3.9	1.5

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, REEDS LANDING, MINN.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	1.2	2.2	1.2	3.7	7.0	6.6	4.7	2.6	2.4	3.4	6.4	2.2
2.....	1.2	2.0	1.2	3.9	7.0	6.2	4.6	2.5	2.6	3.3	6.2	2.0
3.....	1.2	1.9	1.1	4.3	6.9	5.9	4.7	2.4	2.6	3.2	6.0	1.7
4.....	1.2	1.7	1.0	4.5	6.9	5.8	4.7	2.5	2.6	3.2	5.8	1.5
5.....	1.2	1.5	0.9	5.0	6.7	6.0	4.9	2.3	3.0	3.4	5.5	1.3
6.....	1.3	1.4	0.8	5.1	6.6	6.1	4.9	2.2	3.6	3.2	5.2	1.1
7.....	1.3	1.3	0.7	5.3	6.5	6.4	5.1	2.0	4.0	3.0	5.0	1.0
8.....	1.3	1.2	0.7	5.6	6.4	6.9	5.2	1.9	4.1	3.1	4.8	0.9
9.....	1.4	1.2	0.7	6.2	6.3	7.4	5.2	2.0	4.2	3.4	4.6	0.9
10.....	1.4	1.2	0.7	6.8	6.3	7.5	5.0	1.9	4.3	3.7	4.4	0.9
11.....	1.4	1.2	0.7	7.1	6.2	7.5	4.8	1.9	4.3	4.1	4.4	1.0
12.....	1.5	1.2	0.7	7.6	6.5	7.3	4.6	1.8	4.3	5.2	4.3	1.1
13.....	1.5	1.2	0.7	7.8	6.6	7.2	4.4	2.1	4.0	6.2	4.1	Frozen.
14.....	1.5	1.2	0.7	7.9	6.7	7.0	4.4	2.1	3.9	7.1	3.9	0.8
15.....	1.6	1.2	0.7	7.9	6.5	6.8	4.2	2.1	3.6	7.4	3.8	0.8
16.....	1.6	1.2	0.7	7.8	6.4	6.6	4.0	1.9	3.5	7.3	3.7	0.8
17.....	1.7	1.2	0.7	7.6	6.3	6.4	3.8	1.8	3.3	7.3	3.7	0.8
18.....	1.7	1.2	0.7	7.4	6.2	6.2	3.6	1.7	3.1	7.0	3.6	0.7
19.....	1.7	1.2	0.8	7.3	6.0	5.9	3.5	1.7	3.1	6.8	3.5	0.7
20.....	1.7	1.1	0.9	7.2	5.9	5.6	3.4	1.7	3.0	6.7	3.4	0.7
21.....	1.8	1.1	1.2	7.0	5.7	5.4	3.3	1.7	2.8	6.5	3.3	0.6
22.....	1.9	1.1	1.3	6.9	5.6	5.1	3.2	2.0	2.6	6.4	3.3	0.6
23.....	2.0	1.1	1.6	6.9	5.5	4.8	3.1	1.9	2.5	6.5	3.2	0.6
24.....	2.1	1.1	2.0	6.8	5.3	5.0	3.0	2.0	2.4	6.7	3.1	0.5
25.....	2.2	1.1	2.5	6.6	5.2	4.9	2.9	2.3	2.3	7.0	3.0	0.5
26.....	2.3	1.1	2.8	6.8	5.4	4.8	2.8	2.1	2.5	7.1	3.0	0.5
27.....	2.3	1.1	3.2	6.9	5.6	4.8	2.7	2.2	2.7	7.0	2.8	0.5
28.....	2.3	1.1	3.4	7.1	6.0	4.6	2.6	2.4	3.0	7.0	2.5	0.4
29.....	2.3	1.1	3.5	7.2	6.7	4.6	2.4	2.5	3.2	6.9	2.8	0.4
30.....	2.3		3.6	7.2	6.8	4.7	2.4	2.4	3.2	6.8	2.4	0.3
31.....	2.3		3.6		6.9		2.6	2.3		6.6		0.3
Means.	1.7	1.3	1.5	6.5	6.3	6.0	3.9	2.1	3.2	5.6	4.1	0.9

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, LA CROSSE, WIS.

1900												
1.....	Frozen.	Frozen.	Frozen.	6.1	6.6	3.2	1.3	3.5	5.8	7.8	8.2	3.4
2.....				6.3	6.3	3.1	1.2	3.4	5.8	7.8	8.1	3.7
3.....				6.8	6.0	3.0	1.2	3.2	5.8	7.8	8.3	3.9
4.....				6.4	6.5	2.9	1.4	3.0	5.8	7.8	8.8	3.8
5.....				5.5	5.4	2.8	1.8	2.8	5.7	7.9	8.8	3.6
6.....				6.0	5.1	2.7	1.8	2.7	5.6	8.0	8.7	3.4
7.....				6.2	4.9	2.7	1.6	2.6	5.5	8.7	8.6	3.4
8.....				6.2	4.8	2.7	1.9	2.7	5.5	9.8	8.7	3.5
9.....				6.2	4.8	2.7	2.3	2.6	5.4	10.5	8.6	3.4
10.....				6.4	4.5	2.7	2.8	2.6	5.4	11.0	8.4	3.0
11.....			3.0	6.6	4.4	2.8	3.3	2.5	5.3	11.1	8.1	3.1
12.....			3.6	6.7	4.2	2.8	3.7	2.5	5.6	10.9	7.8	3.1
13.....			3.8	6.8	4.0	2.9	3.9	2.5	5.7	10.5	7.5	3.2
14.....			4.2	6.8	4.0	2.9	4.0	2.6	5.7	10.2	7.0	a 4.6
15.....			4.6	6.6	4.2	2.8	4.3	3.2	6.1	9.7	6.7	Frozen.
16.....			4.7	6.4	4.3	2.6	4.5	3.8	6.7	9.3	6.2	
17.....			4.8	6.3	4.3	2.5	4.8	4.2	7.4	8.9	5.8	
18.....			4.8	6.3	4.3	2.5	4.9	4.5	8.1	8.5	5.5	
19.....			4.6	6.1	4.2	2.2	4.8	4.7	8.6	8.1	5.3	
20.....			4.6	6.2	4.2	2.0	4.8	4.8	8.8	7.7	5.1	
21.....			4.6	7.4	4.0	2.0	4.8	4.9	8.7	7.3	4.8	
22.....			4.8	7.8	4.0	1.9	4.9	4.9	8.5	7.1	4.6	
23.....			4.5	8.0	3.9	1.8	4.8	4.9	8.2	6.7	4.4	5.9
24.....			4.9	8.3	3.9	1.8	4.8	4.8	7.8	6.4	4.3	5.6
25.....			5.4	8.5	3.7	1.8	4.8	4.9	7.7	6.1	4.3	5.1
26.....			5.7	8.4	3.4	1.7	4.6	4.9	7.7	5.9	4.1	4.8
27.....			6.0	8.2	3.4	1.8	4.3	5.0	7.5	5.7	3.8	4.6
28.....			6.1	7.8	3.3	1.8	4.1	5.3	7.5	6.5	3.8	4.6
29.....			6.1	7.4	3.3	1.7	3.9	5.6	7.6	7.2	3.6	4.7
30.....			6.0	7.0	3.2	1.5	3.8	5.8	7.7	7.6	3.5	4.6
31.....			5.9		3.2		3.6	5.8		7.9		4.5
Means.			4.9	6.9	4.4	2.4	3.5	3.9	6.8	8.3	6.4	4.1

a 5.3 at 2 p. m.

## DESCRIPTION OF RIVER GAGES, ETC.

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## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, LA CROSSE, WIS.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	Frozen.	3.2	3.2	7.9	7.1	5.3	6.0	4.6	2.2	2.5	2.8	2.0
2.....	-----	3.1	3.2	7.4	6.9	5.2	6.4	4.2	2.2	2.6	2.8	1.9
3.....	-----	3.1	3.5	7.3	6.5	5.0	6.7	4.0	2.2	2.7	2.8	1.9
4.....	3.6	3.1	3.6	7.3	6.4	4.8	6.8	4.0	2.2	2.8	2.8	1.8
5.....	4.1	3.1	3.8	7.3	6.3	4.6	7.0	4.0	2.2	3.0	3.0	1.6
6.....	4.4	3.0	4.2	7.4	6.4	4.5	7.1	3.9	2.1	3.1	3.0	1.8
7.....	4.4	3.0	4.0	7.5	6.4	4.5	7.0	3.9	2.0	3.1	3.0	1.9
8.....	4.3	3.0	3.9	7.8	6.5	4.4	7.0	3.8	2.0	3.1	2.9	1.9
9.....	4.2	3.0	4.3	8.0	6.6	4.3	7.0	3.6	2.1	3.3	2.9	1.7
10.....	4.2	3.0	4.8	8.3	6.5	4.4	7.1	3.5	2.4	3.3	3.0	1.6
11.....	4.0	3.0	4.9	8.5	6.4	4.3	7.2	3.4	2.5	3.4	3.0	1.5
12.....	4.0	3.0	4.8	8.7	6.4	4.3	7.2	3.2	2.5	3.4	3.0	1.5
13.....	3.9	3.0	4.8	8.8	6.3	4.4	7.2	3.2	2.6	3.2	3.0	1.4
14.....	3.8	3.0	4.8	8.9	6.3	4.3	7.2	3.3	2.6	3.2	3.0	0.4
15.....	3.8	3.0	4.7	8.9	6.3	4.1	7.1	3.2	2.4	3.2	3.0	0.3
16.....	3.7	2.9	4.5	8.8	6.2	4.1	7.0	3.1	2.4	3.2	3.0	1.2
17.....	3.6	3.0	4.7	8.9	6.1	4.3	6.9	3.1	2.5	3.2	2.8	2.2
18.....	3.5	3.0	5.0	8.8	6.0	4.4	6.8	3.0	2.5	3.3	2.7	2.5
19.....	2.9	3.0	5.9	8.7	5.9	4.5	6.6	2.9	2.4	3.3	2.7	2.7
20.....	3.1	2.9	6.7	8.7	5.8	4.6	6.5	2.9	2.3	3.2	2.5	2.8
21.....	3.3	2.8	6.4	8.7	5.7	4.7	6.3	3.0	2.2	3.3	2.4	2.8
22.....	3.3	2.7	6.1	8.7	5.7	4.8	6.0	3.0	2.1	3.1	2.3	2.8
23.....	3.5	2.7	6.4	8.6	5.8	4.8	5.7	2.8	2.0	3.1	2.3	2.8
24.....	3.5	2.7	6.8	8.6	5.9	4.8	5.4	2.7	1.9	3.1	2.2	2.8
25.....	3.5	2.8	7.5	8.4	5.8	4.9	5.2	2.6	1.9	3.1	2.2	2.9
26.....	3.3	3.0	8.3	8.2	5.7	4.9	5.2	2.5	2.0	3.1	2.1	2.9
27.....	3.3	3.1	8.4	8.0	5.8	5.0	4.9	2.4	2.0	3.0	2.2	2.9
28.....	3.5	3.2	8.4	7.8	5.8	5.1	4.9	2.3	2.0	2.8	2.2	2.8
29.....	3.5	-----	8.3	7.6	5.7	5.3	5.0	2.3	2.2	2.7	2.1	2.7
30.....	3.4	-----	8.3	7.0	5.5	5.5	4.8	2.2	2.3	2.7	2.0	2.7
31.....	3.5	-----	8.2	-----	5.3	-----	4.6	2.2	-----	2.7	-----	2.6
<b>Means.</b>	<b>3.7</b>	<b>3.0</b>	<b>5.6</b>	<b>8.2</b>	<b>6.1</b>	<b>4.7</b>	<b>6.3</b>	<b>3.2</b>	<b>2.2</b>	<b>3.1</b>	<b>2.7</b>	<b>2.1</b>
<b>1902</b>												
1.....	2.6	2.2	3.7	3.6	3.6	6.6	4.7	4.3	1.9	2.2	2.3	4.8
2.....	2.5	2.4	4.4	3.6	4.1	6.4	4.8	4.1	2.4	2.2	2.5	4.6
3.....	2.4	2.4	4.7	3.6	4.6	6.3	4.8	3.8	2.9	2.2	2.6	4.4
4.....	2.0	2.4	4.5	3.5	5.0	6.3	4.7	3.6	3.1	2.1	2.8	4.0
5.....	1.9	2.2	4.4	3.5	5.3	6.4	4.7	3.4	3.1	2.1	2.9	4.0
6.....	2.1	2.0	4.4	3.3	5.6	6.4	4.7	3.2	3.0	2.0	3.0	4.0
7.....	2.4	1.8	4.3	3.1	6.0	6.2	5.0	3.1	2.7	2.0	3.1	3.9
8.....	2.6	1.6	4.4	3.0	6.4	6.0	5.1	2.9	2.6	2.0	3.2	3.8
9.....	2.6	1.8	4.2	2.9	6.6	6.0	5.3	2.8	2.5	2.0	3.3	3.8
10.....	2.5	2.1	4.4	2.8	6.8	6.0	5.4	2.6	2.3	2.0	3.3	3.7
11.....	2.3	2.1	4.2	2.7	6.7	6.2	5.5	2.5	2.3	1.9	3.3	Frozen.
12.....	2.4	2.2	3.3	2.6	6.5	6.3	5.7	2.4	2.2	2.0	3.3	-----
13.....	2.5	2.2	3.2	2.6	6.3	6.4	5.8	2.4	2.2	2.0	3.5	-----
14.....	2.6	2.2	3.2	2.5	6.2	6.4	5.8	2.3	2.1	2.0	3.6	-----
15.....	2.5	2.1	3.5	2.3	6.2	6.5	5.7	2.3	2.1	1.9	3.7	-----
16.....	2.4	2.1	3.8	2.2	6.2	6.5	5.7	2.2	2.0	1.9	4.0	-----
17.....	2.6	2.1	3.2	2.1	6.5	6.5	5.6	2.2	1.9	1.8	4.4	-----
18.....	2.5	2.1	2.8	2.0	6.6	6.4	5.4	2.1	1.9	1.9	5.7	-----
19.....	2.6	2.1	2.6	2.0	6.6	6.3	5.2	2.1	1.9	1.9	6.4	-----
20.....	2.6	2.0	2.8	2.2	6.6	6.0	5.2	2.0	1.8	1.9	6.7	-----
21.....	2.6	2.0	3.1	2.2	6.8	5.8	5.0	2.0	1.7	1.9	6.9	-----
22.....	2.6	2.0	3.7	2.1	7.0	5.4	5.0	1.9	1.7	1.8	6.9	-----
23.....	2.6	2.0	4.1	2.1	7.7	5.4	5.0	1.8	1.7	1.8	6.8	-----
24.....	2.6	2.1	4.0	2.0	7.3	5.3	4.9	1.8	1.7	1.8	6.7	-----
25.....	2.5	2.4	3.8	2.0	7.0	5.2	4.7	1.7	1.7	1.9	6.3	-----
26.....	2.4	2.6	3.7	1.9	7.1	5.1	4.6	1.6	1.7	1.9	6.2	-----
27.....	2.3	2.8	3.7	2.0	7.2	5.0	4.5	1.6	1.7	2.0	5.9	-----
28.....	2.2	3.2	3.7	2.2	7.3	4.9	4.6	1.5	1.9	2.1	5.6	-----
29.....	1.7	-----	3.7	2.5	7.3	4.8	4.5	1.5	2.0	2.1	5.4	-----
30.....	1.8	-----	3.7	3.0	7.1	4.8	4.3	1.4	2.1	2.1	5.0	-----
31.....	2.0	-----	3.7	-----	6.8	-----	4.3	1.6	-----	2.2	-----	-----
<b>Means.</b>	<b>2.4</b>	<b>2.2</b>	<b>3.8</b>	<b>2.6</b>	<b>6.4</b>	<b>5.9</b>	<b>5.0</b>	<b>2.4</b>	<b>2.2</b>	<b>2.0</b>	<b>4.5</b>	<b>-----</b>

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, LA CROSSE, WIS.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1908</b>												
1.....	Frozen.	Frozen.	Frozen.	8.6	7.5	11.9	4.2	5.4	5.0	9.8	8.1	3.8
2.....				8.5	7.6	11.9	4.3	5.3	4.8	9.5	7.9	3.7
3.....				8.3	7.8	11.8	4.2	5.2	4.8	9.3	7.6	3.7
4.....				8.1	8.2	11.5	4.6	5.2	4.7	9.2	7.4	3.7
5.....				7.9	8.7	11.2	5.2	5.3	4.6	9.0	7.2	Frozen.
6.....				7.8	9.0	10.8	6.0	5.5	4.6	8.8	6.9	
7.....				7.7	9.3	10.5	6.7	5.8	4.7	8.9	6.7	
8.....				7.7	9.4	10.2	7.5	6.0	4.6	9.0	6.4	
9.....				7.6	9.4	9.9	8.0	6.4	4.8	9.3	6.2	
10.....				7.5	9.3	9.6	8.7	6.6	4.9	9.7	6.0	
11.....				7.4	9.2	9.4	9.2	6.7	5.0	10.1	5.9	
12.....				7.5	9.1	9.0	9.4	6.7	5.1	10.5	5.8	
13.....			5.4	7.8	9.0	8.8	9.4	6.7	5.9	10.8	5.7	
14.....			5.1	7.9	9.0	8.4	9.2	6.6	6.9	11.0	5.6	
15.....			5.4	8.1	9.1	8.4	9.0	6.6	8.1	11.2	5.5	
16.....			6.2	8.3	9.6	7.8	8.8	6.5	9.7	11.2	5.4	
17.....			6.7	8.4	10.1	7.5	8.6	6.3	11.1	11.2	5.3	
18.....			6.9	8.5	10.5	7.2	8.4	6.3	12.1	11.0	5.2	
19.....			7.6	8.6	10.7	6.9	8.2	6.1	12.8	10.9	5.1	
20.....			7.3	8.6	10.7	6.6	7.9	5.9	13.2	10.7	5.0	
21.....			7.4	8.6	10.7	6.2	7.7	5.8	13.2	10.5	4.7	
22.....			8.0	8.6	10.6	5.9	7.5	5.6	13.0	10.3	4.5	
23.....			8.5	8.5	10.4	5.5	7.2	5.3	12.7	10.0	4.2	
24.....			8.9	8.4	10.3	5.3	6.9	5.0	12.2	9.9	4.1	
25.....			9.3	8.2	10.3	5.1	6.6	5.0	11.8	9.7	4.0	
26.....			9.4	8.0	10.3	4.8	6.3	5.1	11.4	9.4	4.0	
27.....			9.5	7.9	10.5	4.5	6.0	5.2	11.0	9.2	3.9	
28.....			9.4	7.8	10.8	4.3	5.8	5.2	10.6	9.0	3.9	
29.....			9.1	7.6	11.1	4.2	5.8	5.3	10.3	8.7	3.8	
30.....			9.0	7.6	11.5	4.1	5.7	5.3	9.9	8.4	3.8	
31.....			8.8		11.8		5.5	5.1		8.3		
Means.....			7.8	8.1	9.7	8.0	7.0	5.8	8.4	9.8	5.5	
<b>1904</b>												
1.....	Frozen.	Frozen.	Frozen.	6.8	8.6	8.6	6.2	3.4	3.1	4.1	8.1	3.5
2.....				6.2	8.6	8.6	6.2	3.4	3.4	4.2	8.0	3.5
3.....				6.2	8.5	8.5	6.1	3.5	3.3	4.2	7.9	3.5
4.....				6.3	8.5	8.4	6.2	3.3	3.4	4.2	7.7	3.4
5.....				7.2	8.4	8.1	6.2	3.3	3.4	4.1	7.5	3.3
6.....				7.7	8.3	7.9	6.3	3.3	3.8	4.0	7.3	3.3
7.....				7.2	8.3	7.9	6.2	3.2	4.2	4.0	7.0	3.3
8.....				7.0	8.3	8.0	6.2	3.2	4.5	4.0	6.7	3.3
9.....				7.1	8.1	8.3	6.3	3.0	4.9	4.0	6.4	3.3
10.....				7.4	7.9	8.5	6.5	3.1	5.0	4.2	6.2	3.3
11.....				7.7	7.9	8.8	6.5	3.0	5.1	4.5	5.9	3.3
12.....				8.2	7.9	8.9	6.4	3.0	5.1	5.0	5.7	3.3
13.....				8.6	8.0	9.0	6.3	3.0	5.1	5.8	5.6	3.2
14.....				9.0	8.1	9.0	6.0	3.0	5.1	6.7	5.4	3.2
15.....				9.2	8.1	8.9	5.7	3.1	4.9	7.5	5.2	Frozen.
16.....				9.3	8.0	8.7	5.5	3.0	4.8	8.2	5.0	
17.....				9.4	8.0	8.5	5.4	3.0	4.5	8.6	4.9	
18.....				9.3	8.0	8.3	5.1	2.9	4.4	8.8	4.8	
19.....				9.2	7.9	8.1	5.0	2.8	4.2	8.8	4.6	
20.....				9.1	7.8	7.9	4.7	2.7	4.2	8.7	4.6	
21.....				8.9	7.6	7.6	4.6	2.7	4.0	8.5	4.5	
22.....				8.8	7.5	7.3	4.4	2.7	3.9	8.3	4.4	
23.....				8.7	7.3	7.0	4.3	2.8	3.8	8.1	4.3	
24.....				8.7	7.1	6.8	4.2	2.8	3.5	8.0	4.2	
25.....				8.5	7.1	6.5	4.1	2.8	3.4	8.0	4.1	
26.....				8.3	7.2	6.4	4.0	2.8	3.4	8.1	4.0	
27.....				8.3	7.1	6.3	3.9	2.9	3.3	8.2	4.0	
28.....				8.3	7.1	6.3	3.7	2.9	3.4	8.3	3.9	
29.....				8.4	7.4	6.3	3.6	3.0	3.7	8.3	3.7	
30.....				8.5	8.0	6.2	3.6	3.1	4.0	8.2	3.5	
31.....					8.4		3.5	3.1				
Means.....				8.1	7.9	7.9	5.3	3.0	4.1	6.6	5.5	

a13.3 during day.

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, PRAIRIE DU CHIEN, WIS.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	Frozen.	Frozen.	Frozen.	5.5	10.4	3.0	1.3	3.8	5.1	8.0	8.2	4.6
2.....				5.4	9.9	2.9	1.2	3.7	5.2	8.1	8.6	4.5
3.....				5.5	9.1	2.9	1.2	3.4	5.2	8.4	9.1	4.5
4.....				5.9	8.5	2.8	1.4	3.2	5.2	8.5	9.4	4.4
5.....				6.1	7.7	2.6	1.4	3.0	5.2	8.9	9.8	4.3
6.....				6.5	7.0	2.5	1.5	2.8	5.2	9.0	10.0	4.3
7.....				6.6	6.3	2.4	1.5	2.6	5.2	9.2	10.6	4.3
8.....				6.4	6.1	2.3	1.4	2.5	5.1	9.2	10.8	4.2
9.....				6.6	5.8	2.3	1.3	2.4	5.1	9.2	10.9	4.1
10.....				6.4	5.5	2.3	1.4	2.3	5.1	9.7	11.0	4.0
11.....				6.4	5.4	2.4	1.7	2.3	5.0	10.3	11.1	3.8
12.....				6.5	5.3	2.4	2.8	2.2	5.0	11.1	11.2	Frozen.
13.....				6.7	5.2	2.4	3.4	2.2	5.2	12.8	11.0	.....
14.....				7.0	5.1	2.5	3.8	2.2	5.3	14.2	10.8	.....
15.....				7.3	4.9	2.4	4.0	2.3	5.4	14.6	10.4	.....
16.....				7.5	5.0	2.3	4.3	2.3	5.5	14.5	9.5	.....
17.....				7.7	4.9	2.3	4.5	2.5	5.6	14.0	8.8	.....
18.....				7.2	5.0	2.3	4.7	3.1	6.0	13.4	8.2	.....
19.....				8.2	4.8	2.2	4.7	3.4	6.6	12.7	7.7	.....
20.....				8.0	4.8	1.9	4.9	3.7	7.2	12.0	7.2	.....
21.....				7.9	4.7	1.8	5.0	3.8	7.8	11.3	6.8	.....
22.....				7.9	4.2	1.7	5.1	3.9	8.2	10.7	6.2	.....
23.....				8.0	4.3	1.5	5.3	4.0	8.4	10.0	5.8	.....
24.....			4.8	8.3	4.1	1.5	5.4	4.1	8.5	9.5	5.5	.....
25.....			5.0	8.7	4.0	1.4	5.6	4.3	8.7	9.0	5.3	.....
26.....			5.4	9.1	3.9	1.4	5.6	4.4	8.7	9.3	5.0	.....
27.....			5.6	10.0	3.7	1.4	5.5	4.4	8.5	8.8	4.9	.....
28.....			5.6	10.4	3.5	1.3	5.1	4.4	8.2	8.0	4.8	.....
29.....			5.8	10.4	3.4	1.4	4.8	4.4	8.1	7.0	4.7	.....
30.....			5.8	10.5	3.3	1.4	4.3	4.7	8.0	7.2	4.6	.....
31.....			5.6	.....	3.1	.....	3.9	4.9	.....	7.6	.....	.....
Means.....				7.5	5.4	2.1	3.5	3.3	6.4	10.2	8.3	.....
<b>1901</b>												
1.....	Frozen.	Frozen.	Frozen.	9.8	9.4	5.7	4.7	4.2	1.5	1.8	2.5	1.7
2.....				10.0	9.0	5.5	4.8	4.0	1.5	1.8	2.4	1.6
3.....				9.9	8.6	5.3	5.1	3.9	1.5	1.9	2.4	1.5
4.....				9.7	8.3	5.1	5.4	3.7	1.5	2.0	2.4	1.5
5.....				9.5	8.0	5.0	5.7	3.7	1.5	2.0	2.5	1.5
6.....				9.4	7.7	4.9	6.1	3.6	1.5	2.2	2.6	1.5
7.....				9.3	7.3	4.7	6.4	3.6	1.4	2.6	2.6	Frozen.
8.....				9.1	7.2	4.5	6.7	3.5	1.5	3.0	2.7	.....
9.....				9.1	7.1	4.3	6.7	3.4	1.5	3.3	2.7	.....
10.....				9.2	7.2	4.1	6.7	3.3	1.5	3.4	2.8	.....
11.....				9.3	7.2	4.0	6.8	3.2	1.7	3.5	2.9	.....
12.....				9.5	7.0	3.9	7.0	3.1	1.9	3.5	3.0	.....
13.....				9.8	6.8	3.9	7.1	2.9	2.2	3.5	2.9	.....
14.....				10.1	6.7	3.9	7.2	2.9	2.2	3.5	2.7	.....
15.....				10.3	6.6	3.9	7.2	2.8	2.2	3.4	2.7	.....
16.....				10.7	6.5	3.8	7.1	2.7	2.1	3.4	2.7	.....
17.....				10.9	6.3	3.7	7.0	2.7	1.9	3.3	2.7	.....
18.....				11.0	6.2	3.6	6.8	2.6	1.9	3.3	2.7	.....
19.....				11.0	6.1	3.7	6.7	2.6	1.9	3.3	2.7	.....
20.....				11.0	6.0	4.0	6.6	2.5	1.8	3.3	2.6	.....
21.....				10.9	5.8	4.2	6.5	2.5	1.8	3.3	2.6	.....
22.....				10.8	5.6	4.6	6.3	2.4	1.7	3.3	2.5	.....
23.....				10.7	5.4	4.6	6.1	2.4	1.7	3.3	2.4	.....
24.....				10.6	5.5	4.5	5.8	2.3	1.7	3.2	2.3	.....
25.....				10.6	5.6	4.4	5.5	2.2	1.6	3.1	2.2	.....
26.....			7.8	10.6	5.7	4.4	5.2	2.1	1.6	3.0	2.1	.....
27.....			8.2	10.6	5.8	4.4	5.0	2.0	1.6	2.9	2.0	.....
28.....			8.7	10.5	5.8	4.4	5.0	1.9	1.6	2.8	1.9	.....
29.....			9.0	10.2	5.8	4.4	4.8	1.9	1.6	2.8	1.8	.....
30.....			9.4	9.8	5.8	4.5	4.6	1.7	1.7	2.7	1.7	.....
31.....			9.5	.....	5.8	.....	4.4	1.6	.....	2.6	.....	.....
Means.....				10.1	6.7	4.4	6.0	2.8	1.7	2.9	2.5	.....

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, PRAIRIE DU CHIEN, WIS.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	Frozen.	Frozen.	Frozen.	3.8	2.5	9.3	4.6	4.0	0.9	1.7	1.7	6.1
2.....				3.8	3.0	9.3	4.4	3.8	1.1	1.8	2.0	5.7
3.....				3.8	4.0	9.1	4.4	3.8	1.3	1.8	2.1	5.5
4.....				3.8	5.5	8.6	4.4	3.8	1.7	1.7	2.2	5.3
5.....				3.7	6.0	8.2	4.4	3.6	2.0	1.7	2.3	5.0
6.....				3.5	6.3	8.0	4.4	3.3	2.4	1.6	2.4	4.8
7.....				3.3	6.7	7.8	4.4	3.0	2.6	1.5	2.5	4.6
8.....				3.3	6.9	7.5	4.4	2.8	2.6	1.5	2.3	4.2
9.....				3.1	7.0	7.3	4.5	2.7	2.5	1.5	2.8	Frozen.
10.....				3.0	7.2	7.0	4.6	2.5	2.2	1.5	3.0	
11.....				2.8	7.5	6.9	4.7	2.4	2.1	1.5	3.1	
12.....			5.0	2.7	7.7	6.8	4.8	2.4	2.0	1.5	3.0	
13.....			5.3	2.6	8.0	6.7	4.9	2.2	1.9	1.5	3.1	
14.....			5.5	2.5	8.2	6.7	5.0	2.0	1.9	1.7	3.2	
15.....			5.0	2.5	8.3	6.7	5.2	1.9	1.9	1.7	3.2	
16.....			4.7	2.3	8.2	6.7	5.5	1.9	1.9	1.7	3.4	
17.....			4.5	2.2	8.1	6.7	5.8	1.9	1.8	1.6	3.6	
18.....			4.0	2.1	9.0	6.6	5.5	1.8	1.7	1.5	3.8	
19.....			3.8	2.0	8.8	6.6	5.4	1.7	1.6	1.5	4.2	
20.....			3.6	2.0	8.7	6.6	5.5	1.6	1.5	1.4	5.1	
21.....			3.6	2.0	9.2	6.5	5.7	1.6	1.4	1.4	5.9	
22.....			3.5	2.0	10.2	6.3	5.5	1.5	1.2	1.4	6.6	
23.....			4.0	2.0	10.6	6.0	5.5	1.5	1.2	1.4	7.0	
24.....			4.5	1.9	10.8	5.8	5.3	1.4	1.2	1.4	7.4	
25.....			4.8	1.9	10.7	5.5	5.0	1.3	1.2	1.4	7.6	
26.....			4.7	1.9	10.6	5.5	5.1	1.2	1.2	1.4	7.6	
27.....			4.3	1.9	10.2	5.2	4.8	1.2	1.2	1.4	7.3	
28.....			4.1	1.9	9.8	5.1	4.5	1.1	1.4	1.5	7.0	
29.....			4.0	2.0	9.6	5.0	4.4	1.0	1.6	1.5	6.7	
30.....			3.9	2.2	9.4	4.9	4.3	1.0	1.6	1.6	6.4	
31.....			3.8		9.3		4.2	0.9		1.7		
Means.....			4.3	2.6	8.0	6.8	4.9	2.2	1.7	1.5	4.3	
<b>1903</b>												
1.....	Frozen.	Frozen.	Frozen.	11.8	8.4	14.0	4.0	5.7	6.2	13.5	9.6	Frozen.
2.....				11.6	8.3	14.3	4.0	5.9	6.0	12.8	9.2	
3.....				11.2	8.2	14.5	4.0	5.9	5.8	12.1	8.9	
4.....				10.7	8.2	14.6	4.1	5.8	5.6	11.6	8.6	
5.....				10.2	8.3	14.6	4.4	5.9	5.4	11.2	8.3	
6.....				10.0	8.6	14.5	4.5	5.7	5.2	10.8	8.0	
7.....				9.7	9.0	14.3	4.9	5.7	5.1	10.5	7.8	
8.....				9.4	9.5	14.0	5.8	5.7	5.3	10.3	7.6	
9.....				9.0	9.9	13.4	6.6	5.7	5.3	10.3	7.3	
10.....				8.8	10.3	12.9	7.9	5.8	5.3	10.3	7.0	
11.....				8.7	10.6	12.2	8.4	6.1	5.3	10.5	6.8	
12.....				8.7	10.9	11.7	9.0	6.5	5.2	10.7	6.4	
13.....				8.8	10.9	11.1	9.7	6.8	5.5	11.1	6.1	
14.....				8.9	10.9	10.6	10.2	7.0	5.9	11.5	6.0	
15.....				9.0	10.8	10.2	10.3	7.2	6.3	12.0	5.9	
16.....				9.1	10.6	9.7	10.2	7.2	6.8	12.5	5.7	
17.....				9.2	10.5	9.3	10.0	7.3	7.4	12.8	5.5	
18.....			6.7	9.3	10.8	8.9	10.4	7.3	8.4	13.0	5.4	
19.....			7.1	9.4	11.2	8.5	10.3	7.2	9.9	13.0	5.1	
20.....			7.4	9.4	11.7	8.0	10.0	7.0	12.0	13.0	4.4	
21.....			7.8	9.4	12.2	7.7	9.6	6.8	13.6	12.8	4.2	
22.....			8.2	9.4	12.6	7.4	9.2	6.6	14.7	12.7	4.0	
23.....			8.5	9.4	12.8	7.0	8.8	6.4	15.4	12.3	3.9	
24.....			8.9	9.4	12.8	6.5	8.4	6.0	16.2	12.0	3.9	
25.....			9.4	9.4	12.7	6.1	8.0	5.7	16.7	11.7	3.9	
26.....			9.8	9.2	12.6	5.6	7.1	5.6	16.5	11.4	3.7	
27.....			10.5	9.1	13.0	5.2		5.9	16.0	11.1	Frozen.	
28.....			11.1	8.9	13.3	4.8	6.9	6.0	15.4	10.8		
29.....			11.9	8.7	13.4	4.3	6.6	6.1	14.8	10.5		
30.....			12.0	8.5	13.6	4.0	6.3	6.2	14.1	10.2		
31.....			12.0		13.8		6.0	6.2		9.9		
Means.....				9.4	11.0	9.6	7.5	6.3	9.4	11.6	6.3	

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, PRAIRIE DU CHIEN, WIS.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	Frozen.	Frozen.	Frozen.	Frozen.	9.7	8.7	6.6	3.4	2.6	3.8	9.1	3.9
2.....				7.6	9.8	9.1	6.4	3.2	3.2	4.2	9.0	3.5
3.....				7.5	10.0	9.5	6.2	3.1	3.5	4.5	8.9	3.2
4.....				7.5	10.2	10.2	6.5	3.1	3.5	4.5	8.8	4.0
5.....				7.5	10.3	10.8	6.5	3.0	3.4	4.5	8.7	Frozen.
6.....				7.4	10.4	11.1	6.5	3.0	3.4	4.4	8.6	-----
7.....				7.5	10.4	11.0	6.5	2.9	3.4	4.3	8.5	-----
8.....				7.7	10.3	10.7	6.5	2.8	3.6	4.3	8.2	-----
9.....				7.9	10.1	10.3	6.5	2.8	4.0	4.4	7.9	-----
10.....				7.9	9.8	10.1	6.5	2.7	4.3	4.7	7.7	-----
11.....				8.0	9.5	10.0	6.5	2.7	4.5	4.8	7.4	-----
12.....				8.1	9.3	10.0	6.5	2.6	4.7	4.9	7.0	-----
13.....				8.3	9.2	10.7	6.5	2.6	4.9	5.1	6.8	-----
14.....				8.5	9.2	10.3	6.5	2.6	4.9	5.3	6.6	-----
15.....				9.0	9.2	10.5	6.4	2.6	4.9	6.1	6.3	-----
16.....				9.5	9.3	10.6	6.3	2.7	4.9	6.8	6.0	-----
17.....				9.9	9.4	10.5	6.1	2.8	4.8	7.3	5.7	-----
18.....				10.4	9.6	10.2	5.9	2.8	4.6	7.9	5.4	-----
19.....				10.8	9.7	10.0	5.6	2.7	4.4	8.5	5.2	-----
20.....				10.9	9.7	9.6	5.4	2.6	4.3	9.3	5.1	-----
21.....				10.8	9.5	9.2	5.1	2.6	4.2	10.0	5.0	-----
22.....				10.7	9.3	8.9	4.9	2.5	4.1	10.5	4.8	-----
23.....				10.7	9.0	8.6	4.7	2.4	4.0	10.5	4.7	-----
24.....				10.6	8.8	8.3	4.5	2.4	3.8	10.3	4.6	-----
25.....				10.5	8.8	8.0	4.3	2.4	3.7	9.7	4.5	-----
26.....				10.4	8.8	7.6	4.2	2.4	3.6	9.4	4.4	-----
27.....				10.3	8.6	7.3	4.0	2.4	3.5	9.2	4.3	-----
28.....				9.9	8.4	6.8	3.8	2.4	3.4	9.1	4.2	-----
29.....				9.7	8.3	6.7	3.7	2.5	3.5	9.1	4.1	-----
30.....				9.6	8.3	6.7	3.6	2.6	3.5	9.1	4.0	-----
31.....					8.4		3.5	2.6		9.1		-----
Means.....				9.1	9.4	9.4	5.6	2.7	4.0	7.0	6.4	-----

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, DUBUQUE, IOWA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	Frozen	Frozen	Frozen	6.4	10.9	3.2	1.4	4.0	4.6	8.0	7.7	4.5
2.....				6.5	10.7	3.2	1.4	3.9	4.8	8.0	8.0	4.4
3.....				6.3	10.3	3.0	1.9	3.6	4.8	8.0	8.3	4.3
4.....				6.1	9.8	2.9	1.6	3.4	4.8	8.2	8.7	4.3
5.....				6.1	9.1	2.8	1.4	3.2	4.8	8.3	9.0	4.2
6.....				6.1	8.3	2.7	1.4	3.0	4.8	8.6	9.3	4.1
7.....				6.3	7.5	2.7	1.7	2.8	4.8	8.8	9.6	4.1
8.....				6.5	7.0	2.6	2.2	2.7	4.8	8.9	10.0	4.1
9.....				6.5	6.4	2.4	1.7	2.5	4.8	8.9	10.4	4.0
10.....				6.4	6.0	2.4	1.5	2.4	4.8	9.0	10.8	3.9
11.....				6.3	5.5	2.5	1.5	2.3	4.8	9.3	11.0	3.5
12.....				6.3	5.2	2.6	2.2	2.5	4.8	9.8	11.2	2.9
13.....				6.4	4.9	2.6	3.0	2.7	4.9	10.5	11.3	2.6
14.....				6.5	4.6	2.6	3.9	2.4	4.9	11.6	11.2	2.1
15.....				6.8	4.5	2.5	4.1	2.6	5.0	13.1	10.9	1.9
16.....				7.1	4.6	2.5	4.2	2.5	5.1	14.2	10.4	1.8
17.....				7.5	4.5	2.4	4.5	2.5	5.1	14.6	10.1	1.8
18.....				8.9	4.5	2.4	4.5	2.7	5.2	14.5	9.6	2.8
19.....				8.8	4.5	2.3	4.5	3.0	5.7	14.0	8.9	2.3
20.....				8.7	4.4	2.2	5.3	3.2	6.3	13.5	8.2	2.2
21.....				8.4	4.3	2.1	5.8	3.5	6.8	12.8	7.7	2.2
22.....				8.2	4.2	2.0	5.3	3.7	7.3	12.2	7.2	2.6
23.....				8.0	4.2	1.8	5.2	3.8	7.6	11.5	6.7	2.9
24.....				8.1	4.2	1.7	5.2	4.0	7.9	10.8	6.3	3.1
25.....			5.3	8.3	4.2	1.6	5.4	4.1	8.2	9.9	5.9	3.2
26.....			5.4	8.5	4.1	1.5	5.6	4.1	8.3	9.2	5.6	3.4
27.....			5.8	8.9	4.0	1.5	5.6	4.2	8.3	8.4	5.2	5.0
28.....			6.2	9.5	3.9	1.5	5.5	4.1	8.3	7.9	5.0	6.3
29.....			6.8	10.3	3.8	1.5	5.1	4.2	8.3	7.4	4.8	Frozen.
30.....			7.1	10.8	3.6	1.4	4.6	4.3	8.0	7.2	4.6	-----
31.....			6.1		3.4		4.1	4.5		7.2		-----
Means.....				7.5	5.7	2.3	3.6	3.3	6.0	10.1	8.5	3.4

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, DUBUQUE, IOWA—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	Frozen.	Frozen.	Frozen.	9.5	10.0	5.6	4.0	4.6	2.2	2.1	3.0	2.5
2.....				9.8	9.6	5.6	4.9	4.5	2.1	2.2	3.0	2.5
3.....				10.0	9.2	5.5	5.1	4.4	2.0	2.3	3.0	2.5
4.....				10.0	9.0	5.4	5.3	4.2	2.0	2.4	3.0	2.3
5.....				10.0	8.5	5.2	5.6	4.1	2.0	2.5	3.0	2.2
6.....				9.9	8.3	5.0	5.9	4.0	1.9	2.5	3.0	2.0
7.....				9.8	8.0	4.8	6.2	3.9	2.0	2.6	3.0	1.9
8.....				9.6	7.8	4.6	6.5	3.9	2.0	3.0	3.0	1.8
9.....				9.4	7.5	4.4	6.7	3.8	2.0	3.4	3.1	1.8
10.....				9.3	7.4	4.3	6.7	3.8	2.0	3.7	3.2	1.9
11.....				9.3	7.3	4.2	6.8	3.6	2.0	4.0	3.2	2.1
12.....				9.4	7.3	4.1	7.0	3.6	2.3	4.1	3.2	2.1
13.....				9.5	7.0	4.1	7.2	3.4	2.4	4.0	3.3	2.2
14.....				9.7	6.8	4.1	7.3	3.4	2.5	4.0	3.2	2.1
15.....				10.0	6.7	4.2	7.3	3.2	2.6	4.0	3.2	Frozen.
16.....				10.3	6.6	4.2	7.3	3.1	2.6	3.9	3.2	
17.....				10.5	6.5	4.1	7.3	3.1	2.6	3.9	3.2	
18.....			7.5	10.8	6.4	4.0	7.2	3.1	2.4	3.8	3.2	
19.....			8.0	10.9	6.4	3.9	7.1	3.0	2.4	3.8	3.1	
20.....			8.4	11.0	6.2	4.1	6.9	3.0	2.3	3.8	3.1	
21.....			7.7	10.9	6.1	4.4	6.8	2.9	2.4	3.9	3.1	
22.....			7.0	10.9	6.0	4.6	6.6	2.9	2.2	3.9	3.1	
23.....			7.3	10.9	5.8	4.6	6.5	2.8	2.2	3.9	3.1	
24.....			7.7	10.8	5.7	4.8	6.3	2.8	2.2	3.8	3.0	
25.....			8.2	10.7	5.7	4.8	6.0	2.8	2.2	3.6	2.9	
26.....			8.3	10.6	5.8	4.8	5.8	2.7	2.1	3.6	2.9	
27.....			8.2	10.6	5.7	4.8	5.5	2.6	2.1	3.5	2.8	
28.....			8.5	10.5	5.7	4.9	5.3	2.4	2.1	3.4	2.7	
29.....			8.9	10.5	5.7	4.8	5.6	2.3	2.1	3.3	2.7	
30.....			9.2	10.4	5.7	4.8	5.3	2.3	2.1	3.2	2.5	
31.....			9.4		5.6		4.8	2.2		3.1		
Means.				10.2	7.0	4.6	6.2	3.3	2.2	3.4	3.0	
<b>1902</b>												
1.....	Frozen.	Frozen.	Frozen.	4.4	2.8	10.2	5.6	4.9	1.6	2.6	2.4	6.8
2.....				4.3	3.1	10.0	5.4	4.8	1.6	2.7	2.5	6.6
3.....				4.3	3.5	10.1	6.0	4.8	1.6	2.6	2.7	6.4
4.....				4.2	5.0	9.9	6.0	4.8	1.9	2.5	2.7	5.9
5.....				4.2	6.4	9.5	5.6	4.6	2.2	2.5	2.9	5.3
6.....				4.2	7.0	9.2	5.5	4.3	2.6	2.4	3.0	5.1
7.....				4.1	7.0	9.5	5.6	4.0	3.0	2.3	3.1	4.8
8.....				4.0	7.3	8.9	5.7	3.7	3.1	2.3	3.2	4.4
9.....				3.8	7.4	8.4	5.6	3.6	3.1	2.3	3.3	4.4
10.....				3.7	7.6	8.0	5.6	3.4	3.0	2.2	3.4	3.2
11.....				3.6	7.9	7.8	5.6	3.2	2.9	2.2	3.5	2.8
12.....			7.1	3.4	8.1	7.7	5.6	3.0	2.9	2.2	3.5	2.8
13.....			6.5	3.2	8.4	8.1	5.6	3.0	2.7	2.2	3.6	2.8
14.....			6.2	3.2	8.9	7.7	5.6	2.8	2.6	2.2	3.6	4.8
15.....			6.0	3.1	8.9	7.8	5.7	2.8	2.5	2.3	3.8	5.0
16.....			5.8	3.0	8.9	7.7	6.0	2.8	2.5	2.4	4.0	5.0
17.....			5.1	2.9	8.9	7.5	7.1	2.8	2.5	2.4	4.2	5.1
18.....			5.1	2.8	9.6	7.4	6.8	2.6	2.5	2.4	4.3	5.0
19.....			4.5	2.8	10.8	7.3	6.6	2.5	2.4	2.2	4.6	5.3
20.....			4.0	2.6	10.7	7.3	6.5	2.5	2.3	2.3	5.2	5.4
21.....			3.5	2.6	10.2	7.2	7.0	2.4	2.2	2.2	5.9	5.5
22.....			3.5	2.6	11.1	7.0	7.3	2.3	2.1	2.1	6.4	5.7
23.....			3.6	2.6	12.2	6.8	6.9	2.2	2.1	2.0	6.9	5.6
24.....			4.4	2.4	12.6	6.6	6.7	2.2	2.1	2.0	7.3	5.7
25.....			5.0	2.6	12.3	6.4	6.3	2.2	2.0	2.1	7.6	Frozen.
26.....			5.3	2.6	11.9	6.8	5.9	2.0	2.0	2.2	7.7	
27.....			5.2	2.6	11.6	6.6	6.2	2.0	2.0	2.1	7.7	
28.....			4.8	2.8	11.2	6.1	6.0	1.8	2.3	2.2	7.7	
29.....			4.7	2.6	10.9	5.8	5.5	1.8	2.7	2.2	7.4	
30.....			4.5	2.6	10.6	5.8	5.2	1.7	2.7	2.3	7.3	
31.....			4.4		10.3		5.0	1.7		2.3		
Means.			5.0	3.2	8.8	7.8	6.0	3.0	2.4	2.3	4.7	5.0



## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, DUBUQUE, IOWA—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	Frozen.	Frozen.	Frozen.	12.8	9.4	14.8	4.9	6.7	6.9	15.6	10.6	3.2
2.....				12.8	9.2	15.0	4.8	6.8	6.9	15.0	10.4	3.4
3.....				12.6	9.2	15.2	4.9	6.9	6.7	14.2	10.0	3.5
4.....				12.3	9.0	15.4	5.0	7.3	6.5	13.6	9.7	3.5
5.....				11.9	8.9	15.6	4.8	6.9	6.2	12.2	9.4	3.5
6.....				11.5	9.0	15.6	5.0	7.5	6.0	12.4	9.1	4.1
7.....				11.1	9.2	15.6	5.1	6.8	5.9	12.1	8.8	5.6
8.....				10.6	9.4	15.4	5.5	6.4	5.8	11.7	8.5	6.0
9.....			5.5	10.3	9.8	15.2	6.4	6.3	5.9	11.4	8.2	6.6
10.....			5.4	10.0	10.1	14.7	7.8	6.3	6.0	11.1	7.8	6.7
11.....			5.3	9.8	10.6	14.1	9.4	6.4	5.9	11.0	7.6	6.3
12.....			4.8	9.9	11.0	13.5	10.0	6.7	5.8	11.0	7.3	6.2
13.....			5.5	10.0	11.3	12.9	10.1	7.0	6.0	11.1	7.1	6.3
14.....			5.6	10.2	11.5	12.3	10.3	7.3	6.3	11.4	6.8	6.4
15.....			5.6	10.4	11.6	11.8	10.6	7.5	6.8	11.8	6.5	6.6
16.....			5.7	10.4	11.6	11.3	10.8	7.7	7.0	12.3	6.4	Frozen.
17.....			6.2	10.2	11.5	10.9	10.9	7.8	7.4	12.8	6.1	.....
18.....			6.7	10.1	11.4	10.3	12.3	7.8	7.8	13.2	6.0	.....
19.....			7.3	10.1	11.4	9.8	13.2	7.8	8.6	13.5	5.8	.....
20.....			7.7	10.1	11.6	9.4	12.4	7.8	9.6	13.7	5.4	.....
21.....			8.1	10.1	12.0	9.0	11.7	7.7	10.9	13.7	5.2	.....
22.....			8.4	10.1	12.5	8.5	10.9	7.5	12.6	13.6	5.0	.....
23.....			8.7	10.1	13.0	8.2	10.4	7.2	14.2	13.4	5.0	.....
24.....			9.1	10.1	13.4	7.8	9.9	7.0	15.5	13.2	4.8	.....
25.....			9.4	10.1	13.5	7.3	9.6	6.8	16.5	12.9	4.7	.....
26.....			9.7	10.1	13.6	6.8	9.0	6.5	17.2	12.6	4.7	.....
27.....			10.1	10.0	13.8	6.3	8.6	6.6	17.4	12.3	4.2	.....
28.....			10.6	9.8	14.3	5.9	8.2	7.0	17.2	12.0	3.3	.....
29.....			11.3	9.7	14.9	5.5	7.8	6.8	16.9	11.7	3.0	.....
30.....			12.1	9.6	15.0	5.1	7.4	6.9	16.3	11.3	2.8	.....
31.....			12.6		14.9		7.0	6.9		11.0		.....
Means.....			7.9	10.6	11.5	11.3	8.5	7.2	9.6	12.6	6.7	5.2
<b>1904</b>												
1.....	Frozen.	Frozen.	Frozen.	8.6	10.3	9.0	7.1	3.8	3.1	4.1	9.6	4.1
2.....				8.4	10.3	9.2	7.0	3.7	3.4	4.2	9.4	3.9
3.....				8.3	10.4	9.5	6.9	3.7	4.0	4.6	9.4	3.8
4.....				8.3	10.5	10.0	7.1	3.6	4.1	4.8	9.3	3.4
5.....				8.2	10.6	10.5	7.6	3.5	4.0	5.0	9.3	3.0
6.....				8.1	10.8	11.0	7.2	3.4	4.0	5.0	9.1	2.6
7.....				8.0	11.0	11.5	7.2	3.4	3.8	4.8	9.0	2.6
8.....				8.2	11.0	11.7	7.2	3.4	3.9	4.6	8.8	2.5
9.....				8.5	11.0	11.7	7.1	3.4	4.1	4.7	8.7	2.4
10.....				8.6	10.8	11.5	7.0	3.3	4.3	4.7	8.4	2.5
11.....				8.6	10.6	11.2	7.0	3.3	4.5	5.2	8.2	2.5
12.....				8.6	10.3	10.9	7.0	3.2	4.8	5.4	7.8	2.8
13.....				8.8	10.2	10.7	7.0	3.2	5.0	5.5	7.5	2.6
14.....				8.9	10.1	10.7	7.0	3.1	5.1	5.6	7.2	2.8
15.....				9.1	10.0	10.8	6.9	3.1	5.2	6.0	6.9	3.0
16.....				9.4	9.9	11.0	6.9	3.0	5.2	6.4	6.6	3.9
17.....				9.8	10.0	11.1	6.8	3.0	5.2	7.0	6.3	3.7
18.....				10.3	10.0	11.1	6.7	3.2	5.2	7.4	6.0	4.2
19.....				10.7	10.1	10.9	6.5	3.2	5.0	8.1	5.8	4.2
20.....				11.1	10.2	10.7	6.3	3.2	4.8	8.7	5.6	3.9
21.....				11.4	10.3	10.4	6.0	3.2	4.7	9.3	5.4	4.0
22.....				11.4	10.2	10.0	5.8	3.2	4.6	10.0	5.3	4.2
23.....				11.4	10.2	9.7	5.4	3.3	4.5	10.5	5.2	4.6
24.....				11.3	10.0	9.4	5.2	3.0	4.4	10.8	5.0	4.8
25.....			9.1	11.3	9.8	9.0	4.9	2.9	4.1	10.8	4.8	4.8
26.....			10.2	11.1	9.7	8.6	4.7	2.8	4.5	10.5	4.7	4.7
27.....			8.0	11.0	9.7	8.3	4.6	2.9	4.3	10.1	4.6	4.8
28.....			8.6	10.8	9.5	8.0	4.3	2.8	4.1	9.9	4.6	5.0
29.....			8.2	10.6	9.3	7.6	4.1	2.9	4.0	9.8	4.5	3.7
30.....			8.0	10.4	9.1	7.4	4.0	3.0	4.2	9.6	4.4	4.4
31.....			8.5		9.0		3.9	3.0		9.6		4.7
Means.....				9.6	10.2	10.1	6.2	3.2	4.4	7.2	6.9	3.7

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, CLINTON, IOWA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1							6.9	3.7	2.7	3.8	8.8	4.0
2							6.6	3.5	2.9	3.8	8.7	4.2
3							6.4	3.4	3.1	3.8	8.7	4.0
4							6.5	3.3	3.5	4.1	8.7	3.8
5							6.5	3.3	3.7	4.4	8.6	3.5
6							6.8	3.2	3.6	4.6	8.5	3.3
7							6.8	3.2	3.6	4.6	8.5	3.1
8							6.6	3.1	3.5	4.5	8.3	2.8
9							6.6	3.0	3.5	4.6	8.2	2.6
10							6.5	3.0	3.6	4.7	8.0	2.4
11							6.4	3.0	3.8	4.8	7.8	2.3
12							6.4	3.0	4.0	4.8	7.6	2.2
13							6.4	3.0	4.3	4.9	7.4	1.9
14							6.3	2.9	4.5	5.1	7.0	Frozen.
15							6.3	2.9	4.7	5.1	6.7	
16							6.3	2.8	4.7	5.4	6.5	
17							6.3	2.8	4.7	5.8	6.2	
18							6.3	2.8	4.9	6.2	5.9	
19							6.2	2.8	5.0	6.7	5.6	
20							6.1	3.0	4.9	7.1	5.4	
21							5.9	3.0	4.6	7.7	5.2	
22							5.6	3.3	4.4	8.1	5.1	
23							5.4	3.1	4.2	8.6	5.0	
24							5.1	3.0	4.2	9.1	4.9	
25							4.9	2.9	4.1	9.5	4.7	
26							4.7	2.7	4.2	9.6	4.5	
27							4.6	2.6	4.6	9.6	4.4	
28							4.4	2.5	4.3	9.5	4.2	
29							4.1	2.5	4.0	9.2	4.2	
30							3.9	2.5	3.8	9.0	4.2	
31							3.8	2.6		8.9		
Means							5.9	3.0	4.1	6.4	6.6	

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, LECLAIRE, IOWA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1	Frozen.	Frozen.	Frozen.	4.0	6.2	2.2	0.6	3.2	2.6	5.1	4.9	3.1
2				5.2	6.5	2.1	0.6	3.0	2.6	5.1	5.0	3.0
3				5.8	6.7	2.0	0.6	2.8	2.5	5.1	5.3	2.8
4				5.9	6.7	1.9	0.8	2.5	2.5	5.1	5.4	2.7
5				5.7	6.4	1.8	1.0	2.3	2.5	5.2	5.5	2.6
6				5.3	6.1	1.7	1.0	2.1	2.5	5.2	5.5	2.5
7				5.0	5.7	1.7	0.9	2.0	2.5	5.4	5.7	2.4
8				4.9	5.4	1.6	1.0	1.9	2.5	5.6	5.8	2.3
9				4.8	5.3	1.5	1.2	1.8	2.5	5.7	6.0	2.2
10				4.7	4.9	1.4	1.1	1.7	2.5	5.7	6.3	2.2
11				4.6	4.6	1.3	1.0	1.5	2.5	5.7	6.5	2.0
12				4.5	4.3	1.2	0.9	1.5	2.5	5.8	6.7	1.5
13				4.5	4.0	1.2	0.9	1.5	2.6	6.0	6.9	1.0
14				4.5	3.8	1.3	1.2	1.6	2.6	6.3	7.0	1.0
15				4.5	3.6	1.3	2.1	1.8	2.7	6.6	7.1	0.5
16				4.6	3.4	1.2	2.7	1.9	2.7	7.1	7.1	0.4
17				4.9	3.3	1.2	2.9	2.1	2.8	7.7	7.0	0.2
18				5.2	3.2	1.2	3.5	1.9	2.8	8.3	6.7	0.0
19				5.5	3.1	1.2	3.5	1.8	3.0	8.8	6.4	0.1
20				5.7	3.0	1.1	3.4	1.8	3.4	9.0	6.1	0.2
21				5.6	3.0	1.1	3.7	2.0	3.7	8.9	5.8	0.3
22				5.4	2.9	1.1	3.9	2.0	4.1	8.7	5.4	0.4
23				5.3	2.9	1.1	3.8	2.2	4.5	8.4	5.1	0.6
24			2.2	5.3	2.8	1.0	3.8	2.3	4.8	8.0	4.8	1.0
25			2.2	5.3	2.8	1.0	4.0	2.5	5.1	7.6	4.5	Frozen.
26			2.1	5.3	2.7	0.9	4.0	2.7	5.2	7.1	4.1	
27			2.2	5.4	2.7	0.8	3.9	2.8	5.2	6.6	3.9	
28			2.2	5.5	2.6	0.8	3.9	2.7	5.2	6.2	3.7	
29			2.3	5.7	2.5	0.8	3.8	2.7	5.2	5.6	3.5	
30			2.7	5.8	2.4	0.7	3.7	2.6	5.2	5.2	3.3	
31			3.0		2.3		3.5	2.5		5.0		
Means				5.1	4.1	1.3	2.4	2.2	3.4	6.5	5.6	1.5

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, LECLAIRE, IOWA—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	Frozen.	Frozen.	Frozen.	6.4	6.6	3.7	2.9	3.4	1.2	1.0	1.7	1.1
2.....				6.4	6.5	3.7	2.9	3.2	1.1	1.0	1.6	1.1
3.....				6.4	6.4	3.7	3.0	3.1	1.1	1.1	1.6	1.0
4.....				6.5	6.2	3.6	3.0	2.9	1.0	1.2	1.5	0.9
5.....				6.6	6.0	3.5	3.0	2.7	1.0	1.2	1.4	0.9
6.....				6.6	5.8	3.5	3.1	2.5	1.0	1.2	1.4	0.8
7.....				6.5	5.6	3.4	3.2	2.4	1.0	1.2	1.4	0.8
8.....				6.4	5.4	3.3	3.3	2.3	1.0	1.3	1.4	0.7
9.....				6.4	5.2	3.1	3.6	2.2	1.0	1.5	1.4	0.6
10.....				6.2	5.1	3.0	3.8	2.2	1.0	1.7	1.4	0.6
11.....				6.1	5.0	2.9	4.0	2.1	1.0	1.9	1.4	0.6
12.....				6.1	4.9	2.8	4.1	2.1	1.1	2.1	1.6	0.5
13.....				6.1	4.8	2.7	4.2	2.0	1.1	2.3	1.6	0.6
14.....				6.1	4.7	2.6	4.3	2.0	1.1	2.3	1.7	Frozen.
15.....				6.2	4.6	2.6	4.3	1.9	1.2	2.3	1.7	
16.....				6.3	4.5	2.5	4.4	1.8	1.3	2.3	1.6	
17.....				6.5	4.5	2.5	4.5	1.7	1.4	2.2	1.6	
18.....			3.5	6.7	4.4	2.4	4.5	1.6	1.4	2.1	1.5	
19.....			5.2	6.8	4.4	2.3	4.5	1.6	1.4	2.1	1.4	
20.....			5.8	6.9	4.4	2.3	4.4	1.6	1.3	2.1	1.4	
21.....			6.5	7.0	4.2	2.3	4.3	1.5	1.3	2.1	1.4	
22.....			6.3	7.0	4.1	2.4	4.3	1.5	1.2	2.1	1.4	
23.....			5.5	7.0	4.0	2.5	4.2	1.5	1.2	2.1	1.5	
24.....			5.2	7.0	3.9	2.6	4.1	1.4	1.2	2.1	1.5	
25.....			5.2	6.9	3.8	2.7	4.0	1.4	1.1	2.0	1.5	
26.....			5.4	6.9	3.7	2.7	3.9	1.4	1.1	2.0	1.4	
27.....			5.6	6.8	3.7	2.8	3.8	1.3	1.1	2.0	1.3	
28.....			5.5	6.8	3.7	2.8	3.7	1.3	1.1	1.9	1.3	
29.....			5.4	6.7	3.8	2.8	3.8	1.3	1.1	1.8	1.2	
30.....			5.3	6.7	3.7	2.9	3.7	1.2	1.1	1.8	1.2	
31.....			5.9		3.7		3.6	1.2		1.8		
Means.....				6.6	4.8	2.9	3.8	1.9	1.1	1.8	1.5	
<b>1902</b>												
1.....	Frozen.	Frozen.	Frozen.	2.9	1.2	6.9	4.3	3.6	0.9	1.7	1.2	4.6
2.....				2.8	1.3	6.7	4.2	3.4	0.9	1.6	1.3	4.5
3.....				2.6	1.5	6.6	4.1	3.2	0.8	1.6	1.4	4.4
4.....				2.5	1.7	7.0	4.5	3.1	0.8	1.5	1.4	4.2
5.....				2.5	2.4	6.8	4.5	3.1	0.8	1.5	1.5	4.0
6.....				2.5	3.7	6.6	4.4	3.0	1.0	1.5	1.6	3.6
7.....				2.5	4.2	6.5	4.3	2.7	1.2	1.5	1.8	3.0
8.....				2.4	4.5	6.5	4.9	2.6	1.4	1.4	1.8	2.2
9.....				2.3	4.6	6.4	5.0	2.4	1.7	1.4	1.9	1.4
10.....			3.2	2.2	4.6	6.2	5.4	2.3	1.8	1.3	1.9	1.0
11.....			3.4	2.0	4.8	6.0	5.4	2.2	1.8	1.2	1.9	0.8
12.....			3.7	2.0	4.9	5.8	5.3	2.0	1.6	1.2	1.9	0.6
13.....			4.3	1.9	5.1	5.6	4.7	2.0	1.6	1.1	2.0	0.6
14.....			4.6	1.8	5.3	6.1	4.5	1.9	1.5	1.1	2.0	0.4
15.....			4.3	1.6	5.6	6.1	4.4	1.8	1.5	1.2	2.2	0.2
16.....			4.1	1.5	5.6	5.8	4.4	1.7	1.4	1.2	2.3	0.2
17.....			4.0	1.5	5.5	5.7	5.0	1.7	1.4	1.1	2.3	0.5
18.....			3.7	1.4	5.7	5.4	5.9	1.7	1.4	1.2	2.4	Frozen.
19.....			3.1	1.3	6.2	5.1	6.1	1.6	1.4	1.3	2.5	
20.....			2.6	1.3	6.8	4.9	5.9	1.8	1.3	1.4	2.7	
21.....			2.1	1.2	6.9	4.9	5.5	2.0	1.3	1.3	3.0	
22.....			1.9	1.2	6.8	4.8	5.1	2.1	1.2	1.2	3.4	
23.....			1.9	1.2	7.0	4.7	5.1	1.8	1.2	1.2	4.0	
24.....			2.0	1.2	7.4	4.6	5.0	1.6	1.2	1.2	4.4	1.2
25.....			2.2	1.2	7.7	4.5	4.7	1.5	2.0	1.3	4.7	1.2
26.....			2.5	1.2	8.0	4.5	4.6	1.3	1.9	1.3	4.8	1.2
27.....			3.0	1.3	8.0	4.6	4.4	1.2	1.7	1.3	4.9	Frozen.
28.....			3.4	1.2	7.9	4.6	4.5	1.1	1.5	1.3	4.9	
29.....			3.2	1.2	7.7	4.5	4.6	1.0	1.4	1.3	4.9	
30.....			3.1	1.2	7.5	4.5	4.4	1.0	1.6	1.2	4.8	
31.....			3.0		7.2		3.8	0.9		1.2		
Means.....			3.2	1.8	5.4	5.6	4.8	2.0	1.4	1.3	2.7	2.0

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, LECLAIRE, IOWA—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	Frozen.	Frozen.	Frozen.	7.5	5.8	9.9	3.5	4.8	4.6	10.7	7.1	Frozen.
2.....				7.8	5.7	9.9	3.3	4.6	4.6	10.5	6.9	
3.....				8.0	5.7	10.0	3.2	4.4	4.6	10.2	6.6	
4.....				8.0	5.6	10.2	3.4	4.6	4.5	9.8	6.4	
5.....				7.9	5.5	10.2	3.7	4.8	4.4	9.3	6.3	
6.....				7.7	5.4	10.2	3.7	5.3	4.2	8.8	6.1	
7.....				7.5	5.4	10.2	3.3	5.6	4.0	8.6	5.9	
8.....				7.4	5.4	10.2	3.3	5.4	3.9	8.3	5.8	
9.....			4.6	7.2	5.5	10.1	3.5	4.8	4.0	8.1	5.6	
10.....			3.6	6.9	5.7	9.9	3.4	4.4	4.0	7.9	5.3	
11.....			3.9	6.7	6.0	9.7	5.5	4.2	4.2	7.6	5.0	
12.....			3.6	6.7	6.2	9.3	6.4	4.2	4.1	7.4	4.8	
13.....			3.3	7.0	6.4	9.0	7.4	4.4	4.2	7.2	4.6	
14.....			3.7	7.2	6.6	8.6	7.7	4.5	4.4	7.1	4.5	
15.....			3.9	7.2	6.7	8.3	7.7	4.6	4.9	7.1	4.4	
16.....			3.9	7.2	6.8	7.9	7.5	4.8	5.2	7.2	4.3	
17.....			4.0	7.1	6.9	7.5	7.4	4.8	5.1	7.4	4.2	
18.....			4.2	6.9	6.9	7.1	7.4	4.9	5.1	7.6	4.0	
19.....			4.6	6.7	6.9	6.8	7.6	4.9	5.2	7.9	3.8	
20.....			5.0	6.5	6.9	6.5	8.0	4.9	5.5	8.1	3.5	
21.....			5.3	6.5	7.0	6.3	8.1	4.9	5.8	8.2	3.0	
22.....			5.5	6.5	7.1	6.1	8.0	4.9	6.2	8.3	2.7	
23.....			5.7	6.3	7.2	5.8	7.6	4.8	6.7	8.4	2.5	
24.....			5.8	6.1	7.5	5.6	7.3	4.7	7.3	8.4	2.3	
25.....			6.0	6.1	7.7	5.3	7.0	4.6	8.2	8.4	2.2	
26.....			6.1	6.1	8.0	4.9	6.7	4.5	9.1	8.3	2.0	
27.....			6.2	6.1	8.2	4.7	6.3	4.6	10.1	8.1	2.2	
28.....			6.3	6.1	8.5	4.3	5.9	4.6	10.6	7.9	1.2	
29.....			6.6	6.0	8.8	4.0	5.6	4.7	10.8	7.7	1.2	
30.....			6.8	5.9	9.2	3.8	5.3	4.7	10.8	7.5	0.7	
31.....			7.2		9.6		5.0	4.7		7.3		
Means.....			5.0	6.9	6.8	7.7	5.8	4.7	5.9	8.2	4.2	
<b>1904</b>												
1.....	Frozen.	Frozen.	Frozen.	5.4	6.7	5.7	4.8	2.4	1.3	2.3	5.9	2.1
2.....				5.5	6.5	5.7	4.6	2.3	1.3	2.3	5.8	2.0
3.....				5.4	6.4	5.6	4.5	2.1	1.4	2.3	5.7	2.0
4.....				5.3	6.4	5.7	4.5	2.0	1.9	2.4	5.7	1.9
5.....				5.2	6.4	5.6	4.5	1.9	2.2	2.6	5.7	1.8
6.....				5.2	6.4	5.7	4.7	1.9	2.2	2.8	5.6	1.5
7.....				5.1	6.5	5.9	4.8	1.8	2.2	2.8	5.5	1.1
8.....				5.0	6.6	6.4	4.7	1.7	2.1	2.8	5.4	1.0
9.....				5.1	6.7	6.6	4.7	1.6	2.1	2.8	5.3	0.8
10.....				5.2	6.7	6.8	4.7	1.6	2.1	2.8	5.3	0.8
11.....				5.2	6.7	6.8	4.7	1.6	2.3	3.0	5.2	0.8
12.....				5.3	6.6	6.7	4.7	1.6	2.4	3.2	5.0	0.8
13.....				5.3	6.5	6.6	4.7	1.6	2.5	3.3	4.8	0.4
14.....				5.3	6.5	6.5	4.6	1.5	2.7	3.4	4.6	Frozen.
15.....				5.3	6.4	6.4	4.6	1.5	2.8	3.5	4.4	
16.....				5.5	6.3	6.4	4.5	1.4	2.9	3.7	4.3	
17.....				5.7	6.2	6.4	4.4	1.3	2.9	3.9	4.2	
18.....				6.0	6.2	6.4	4.3	1.3	2.9	4.2	4.0	
19.....				6.2	6.2	6.5	4.2	1.4	3.1	4.5	3.8	
20.....				6.3	6.2	6.5	4.1	1.5	3.2	4.8	3.6	
21.....				6.4	6.2	6.5	4.0	1.6	3.1	5.2	3.5	
22.....				6.6	6.2	6.4	3.9	1.9	2.9	5.5	3.3	
23.....			5.3	6.9	6.2	6.2	3.7	1.8	2.6	5.9	3.1	
24.....			6.3	7.1	6.3	6.0	3.5	1.7	2.5	6.1	3.0	
25.....			5.8	7.4	6.2	5.9	3.3	1.7	2.5	6.4	2.9	
26.....			6.6	7.4	6.1	5.7	3.2	1.6	2.6	6.5	2.6	
27.....			7.1	7.3	6.0	5.5	3.1	1.5	3.0	6.5	2.4	
28.....			6.6	7.2	6.0	5.3	2.9	1.3	2.9	6.4	2.2	
29.....			5.8	7.0	5.9	5.1	2.9	1.3	2.7	6.3	2.1	
30.....			5.5	6.8	5.9	4.9	2.7	1.3	2.4	6.2	2.1	
31.....			5.3		5.8		2.6	1.3		6.0		
Means.....				6.0	6.3	6.1	4.1	1.6	2.5	4.2	4.2	

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, DAVENPORT, IOWA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	Frozen.	Frozen.	Frozen.	5.5	8.0	3.2	1.3	3.9	3.6	6.3	5.8	4.0
2.....				7.0	8.2	3.0	1.2	3.6	3.6	6.2	6.0	3.8
3.....				7.7	8.4	2.9	1.4	3.5	3.8	6.2	6.1	3.7
4.....				7.8	8.4	2.8	1.4	3.2	4.0	6.2	6.2	3.6
5.....				7.4	8.2	2.6	1.8	3.1	4.0	6.2	6.5	3.6
6.....				6.8	7.8	2.6	1.5	2.9	4.0	6.3	6.7	3.6
7.....				6.4	7.2	2.4	1.5	2.8	4.0	6.6	7.0	3.4
8.....				6.2	6.8	2.4	1.6	2.6	4.0	6.7	7.2	3.4
9.....				6.0	6.4	2.3	1.8	2.4	3.9	6.8	7.4	3.4
10.....				5.9	5.8	2.2	2.0	2.4	3.8	6.8	7.6	3.4
11.....				5.7	5.4	2.2	1.8	2.2	3.8	6.8	8.0	3.0
12.....				5.7	5.0	2.2	1.7	2.3	3.8	7.0	8.2	3.0
13.....				5.6	4.6	2.2	1.6	2.4	3.8	7.2	8.4	2.1
14.....			12.8	5.5	4.3	2.2	2.0	2.6	3.8	7.5	8.7	1.7
15.....			12.6	5.4	4.2	2.2	2.9	2.8	3.8	7.9	8.8	1.4
16.....			12.0	5.6	4.0	2.2	3.2	2.6	3.9	8.5	8.6	1.0
17.....			Frozen.	6.7	3.8	2.1	3.6	2.7	4.0	9.3	8.5	1.3
18.....				6.6	3.8	2.1	4.0	2.8	4.0	10.0	8.2	0.9
19.....				7.4	3.8	2.0	4.0	2.5	4.0	10.7	8.0	1.0
20.....				7.9	3.8	2.0	3.8	2.5	4.2	11.0	7.6	1.4
21.....	4.4			7.8	3.8	2.0	4.2	2.6	4.6	11.0	7.2	1.9
22.....	4.2			7.6	3.7	2.0	4.6	2.8	4.9	10.8	6.6	2.0
23.....	4.5		6.9	7.2	3.6	1.9	4.6	2.9	5.2	10.4	6.2	2.3
24.....	3.6		6.6	7.0	3.6	1.8	4.6	3.1	5.6	10.0	5.7	2.2
25.....	2.7		5.6	6.8	3.6	1.7	4.6	3.3	5.8	9.5	5.4	2.9
26.....	1.7		4.9	6.7	3.5	1.6	4.8	3.4	6.2	8.9	5.0	2.3
27.....	2.1		4.4	6.8	3.5	1.5	4.6	3.6	6.4	8.2	4.8	2.0
28.....	2.4		4.5	7.0	3.4	1.4	4.6	3.7	6.4	7.5	4.6	2.0
29.....	3.2		4.3	7.2	3.4	1.4	4.6	3.7	6.4	6.9	4.4	2.0
30.....	5.5		4.1	7.6	3.4	1.4	4.4	3.6	6.4	6.3	4.1	2.2
31.....	Frozen.		4.3		3.2		4.2	3.6		6.0		2.4
<b>Means.</b>				6.7	5.1	2.2	3.0	3.0	4.5	7.9	6.8	2.5
<b>1901</b>												
1.....	2.0	Frozen.	Frozen.	8.8	8.3	4.3	3.6	4.1	1.9	1.8	2.8	2.3
2.....	2.2			8.8	8.2	4.4	3.6	3.8	1.8	1.8	2.8	2.3
3.....	2.2			8.8	8.0	4.3	3.6	3.6	1.8	2.0	2.6	2.2
4.....	2.6			8.8	7.6	4.2	3.6	3.5	1.8	2.0	2.7	2.2
5.....	3.6			8.6	7.2	4.2	3.8	3.4	1.7	2.0	2.6	2.1
6.....	3.5			8.7	7.0	4.2	4.0	3.3	1.6	2.1	2.5	2.0
7.....	3.8			8.6	6.8	4.2	4.1	3.2	1.6	2.2	2.6	1.8
8.....	3.4			8.5	6.6	4.0	4.2	3.2	1.6	2.2	2.7	1.8
9.....	3.2			8.4	6.3	3.8	4.4	3.2	1.6	2.4	2.6	1.8
10.....	3.6			8.2	6.1	3.6	4.6	3.1	1.6	2.6	2.6	1.5
11.....	5.4			8.1	6.0	3.5	4.8	3.0	1.6	2.9	2.6	1.6
12.....	5.1			7.9	5.8	3.4	4.9	3.0	1.8	3.2	2.8	1.7
13.....	5.4			7.8	5.8	3.4	4.9	2.9	2.0	3.4	2.8	1.8
14.....	5.4			7.8	5.6	3.2	5.0	2.8	2.0	3.5	2.8	2.3
15.....	4.8			7.8	5.4	3.2	5.2	2.8	2.2	3.4	2.9	2.7
16.....	4.5			8.0	5.2	3.2	5.4	2.8	2.3	3.4	2.8	Frozen.
17.....	4.1		9.4	8.1	5.2	3.2	5.4	2.6	2.3	3.3	2.8	
18.....	5.8		7.6	8.3	5.2	3.2	5.4	2.6	2.2	3.3	2.8	
19.....	6.2		7.4	8.4	5.0	3.2	5.4	2.6	2.2	3.3	2.7	
20.....	7.1		8.3	8.6	4.9	3.1	5.3	2.5	2.2	3.3	2.7	
21.....	5.5		9.0	8.7	4.8	3.1	5.2	2.4	2.0	3.2	2.7	
22.....	4.7		9.2	8.8	4.8	3.2	5.2	2.4	2.0	3.2	2.6	
23.....	4.5		8.8	8.8	4.7	3.4	5.0	2.4	2.0	3.2	2.8	
24.....	4.1		8.2	8.8	4.6	3.4	4.9	2.4	2.0	3.4	2.7	
25.....	4.0		8.1	8.7	4.4	3.5	4.8	2.3	2.0	3.3	2.7	
26.....	6.0		8.4	8.6	4.4	3.5	4.6	2.2	1.9	3.2	2.6	
27.....	6.7		8.5	8.5	4.4	3.6	4.6	2.2	1.9	3.2	2.6	
28.....	6.8		8.5	8.4	4.4	3.6	4.4	2.2	1.8	3.0	2.4	
29.....	6.6		8.4	8.4	4.4	3.7	4.4	2.1	1.8	3.0	2.4	
30.....	Frozen.		8.5	8.4	4.3	3.8	4.4	2.0	1.8	2.9	2.4	
31.....			8.7		4.2		4.4	2.0		2.8		
<b>Means.</b>	4.6		8.5	8.4	5.7	3.6	4.6	2.8	1.9	2.9	2.7	2.0

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, DAVENPORT, IOWA—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	Frozen.	Frozen.	Frozen.	3.9	2.2	9.0	5.4	5.1	2.0	2.9	2.4	6.0
2.....				3.8	2.4	8.6	5.2	4.8	2.0	3.0	2.4	5.8
3.....				3.6	2.4	8.5	5.2	4.6	1.8	2.9	2.4	5.6
4.....				3.6	2.6	9.0	5.4	4.6	1.8	2.8	2.5	5.4
5.....				3.5	3.3	9.3	5.8	4.4	1.8	2.8	2.7	5.2
6.....			7.0	3.6	4.3	9.0	5.8	4.4	1.9	2.9	3.0	4.9
7.....			7.1	3.6	5.2	8.6	5.5	4.2	2.3	2.9	3.1	4.4
8.....			6.5	3.5	5.4	8.4	6.0	4.0	2.6	2.8	3.2	4.4
9.....			5.1	3.4	5.5	8.6	6.4	3.8	2.8	2.8	3.2	3.5
10.....			5.6	3.4	5.6	8.1	7.0	3.6	3.0	2.7	3.2	2.5
11.....			5.0	3.3	5.8	7.9	7.2	3.7	2.8	2.6	3.3	1.9
12.....			4.8	3.3	6.0	7.3	6.8	3.6	2.8	2.6	3.4	1.6
13.....			5.2	3.1	6.2	7.2	6.4	3.8	2.7	2.5	3.4	1.7
14.....			5.7	2.9	6.4	7.7	6.0	3.5	2.6	2.6	3.4	1.8
15.....			5.4	2.8	6.7	8.0	5.9	3.2	2.5	2.8	3.5	1.6
16.....			5.4	2.8	6.8	7.8	5.8	3.2	2.4	2.8	3.6	1.8
17.....			5.4	2.6	6.9	7.4	6.1	3.0	2.4	2.7	3.7	2.3
18.....			5.0	2.6	7.0	7.0	7.7	3.1	2.4	3.0	3.8	2.2
19.....			4.3	2.6	7.4	6.7	8.3	3.0	2.4	3.0	3.9	2.4
20.....			4.0	2.4	8.2	6.6	7.9	3.8	2.3	3.0	4.0	2.6
21.....			3.8	2.4	8.4	6.4	7.5	3.6	2.2	3.0	4.3	2.8
22.....			3.5	2.3	8.6	6.2	7.0	3.8	2.2	2.6	4.7	3.0
23.....			3.3	2.4	8.6	6.0	6.8	3.4	2.2	2.6	5.1	3.4
24.....			3.2	2.5	9.2	5.8	6.8	3.0	2.4	2.4	5.4	3.6
25.....			3.4	2.3	9.8	5.8	6.6	2.8	3.4	2.6	5.8	4.0
26.....			3.7	2.4	10.4	5.7	6.4	2.7	3.4	2.5	5.9	4.0
27.....			4.1	2.4	10.4	5.7	6.1	2.6	3.2	2.6	6.1	4.2
28.....			4.3	2.4	10.4	5.8	6.1	2.4	2.8	2.6	6.2	3.8
29.....			4.2	2.2	10.2	5.6	6.3	2.3	2.7	2.4	6.2	4.0
30.....			4.0	2.2	9.8	5.4	5.8	2.2	2.8	2.4	6.2	4.0
31.....			4.0		9.4		5.4	2.1		2.4		3.9
Means.			4.7	2.9	6.8	7.3	6.3	3.5	2.5	2.7	4.0	3.5
<b>1903</b>												
1.....	4.8	Frozen.	Frozen.	9.6	8.0	12.5	4.4	6.0	5.8	13.6	9.6	2.2
2.....	4.4			10.0	7.8	12.8	4.2	5.7	5.8	13.4	9.3	2.0
3.....	3.9			10.3	7.6	12.9	4.2	5.6	5.8	13.1	9.0	2.1
4.....	3.8			10.4	7.5	13.2	4.4	5.6	5.6	12.6	8.8	2.2
5.....	4.2			10.3	7.3	13.2	4.6	5.9	5.5	12.2	8.5	2.7
6.....	4.2			10.0	7.2	13.2	4.5	6.4	5.4	11.6	8.2	2.8
7.....	4.7			9.9	7.2	13.2	4.3	7.1	5.2	11.8	7.9	2.8
8.....	5.2		5.5	9.6	7.2	13.1	4.2	6.8	5.0	11.2	7.6	2.4
9.....	Frozen.		7.4	9.3	7.2	13.0	4.3	6.0	5.0	11.0	7.4	2.5
10.....			6.9	8.9	7.4	12.8	4.8	5.6	5.4	10.8	7.2	2.8
11.....			6.7	8.8	7.6	12.6	6.3	5.4	5.4	10.5	7.0	2.7
12.....			6.4	8.8	7.8	12.2	7.9	5.3	5.5	10.0	6.8	2.7
13.....			6.0	9.2	8.1	11.7	9.2	5.3	5.4	9.6	6.7	3.2
14.....			6.0	9.6	8.4	11.2	9.7	5.4	5.7	9.4	6.4	3.2
15.....			6.0	9.9	8.6	10.7	9.6	5.6	6.6	9.3	6.0	4.6
16.....			6.0	9.9	8.8	10.2	9.5	5.8	6.8	9.4	5.8	6.5
17.....			5.8	9.9	8.8	9.7	9.3	5.9	6.9	9.6	5.8	Frozen.
18.....			5.9	9.8	8.9	9.2	9.4	6.2	6.9	9.8	5.6	
19.....			6.2	9.4	8.9	8.7	9.6	6.2	7.0	10.0	5.3	
20.....			6.8	9.2	8.8	8.3	10.0	6.2	7.2	10.4	5.0	
21.....			7.2	9.0	8.8	7.9	10.4	6.2	7.5	10.6	4.6	
22.....			7.4	8.8	9.0	7.6	10.4	6.1	8.0	10.8	4.5	
24.....			7.7	8.8	9.2	7.2	10.1	6.0	8.7	11.0	4.5	
25.....			8.0	8.6	9.4	6.8	9.7	5.9	9.4	11.0	4.4	
26.....			8.2	8.6	9.7	6.4	9.2	5.8	10.3	10.9	4.1	
27.....			8.2	8.5	10.0	6.1	8.7	5.6	11.2	10.8	4.0	
28.....			8.2	8.4	10.4	5.8	8.1	5.6	12.3	10.6	3.9	
29.....			8.6	8.2	10.8	5.4	7.6	5.6	13.0	10.4	2.9	
30.....			8.6	8.2	11.2	5.0	7.2	5.8	13.5	10.2	2.6	
31.....			8.8	8.1	11.7	4.7	6.9	5.9	13.6	10.0	2.5	
Means.			7.2	9.3	8.8	9.9	7.4	5.9	7.5	10.8	6.1	3.0

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, DAVENPORT, IOWA—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	Frozen.	Frozen.	Frozen.	9.1	9.0	7.6	6.2	3.4	2.6	3.8	7.8	3.8
2.....				9.2	8.8	7.5	5.9	3.2	2.6	3.9	7.8	3.6
3.....				9.0	8.6	7.5	5.8	3.2	2.8	3.8	7.7	3.4
4.....				8.7	8.6	7.6	5.7	3.1	3.1	3.8	7.7	3.2
5.....				8.4	8.5	7.8	5.7	3.0	3.4	4.0	7.6	3.2
6.....				8.2	8.5	8.0	5.8	3.0	3.4	4.2	7.6	2.8
7.....				7.9	8.6	8.3	6.0	3.0	3.4	4.3	7.5	2.6
8.....				7.7	8.9	8.6	6.0	2.9	3.4	4.2	7.4	2.4
9.....				7.8	9.1	8.8	5.8	2.8	3.3	4.2	7.3	2.2
10.....				8.0	9.1	9.0	5.8	2.8	3.3	4.2	7.2	1.9
11.....				8.1	9.1	9.0	5.8	2.8	3.4	4.4	7.0	2.0
12.....				8.2	9.0	9.0	5.8	2.7	3.6	4.5	6.8	2.0
13.....				8.2	8.9	8.8	5.7	2.6	3.8	4.6	6.6	2.1
14.....				8.0	8.8	8.7	5.7	2.8	4.0	4.6	6.4	1.3
15.....				8.0	8.6	8.6	5.7	2.6	4.2	4.7	6.1	1.2
16.....				8.0	8.4	8.5	5.6	2.6	4.2	4.8	5.8	0.8
17.....				8.1	8.4	8.5	5.6	2.6	4.2	5.1	5.6	1.0
18.....				8.2	8.3	8.6	5.6	2.6	4.3	5.5	5.3	0.8
19.....				8.4	8.3	8.6	5.5	2.6	4.4	5.8	5.1	1.0
20.....				8.6	8.3	8.6	5.4	2.9	4.9	6.2	4.9	1.9
21.....				8.8	8.3	8.6	5.2	2.7	4.6	6.7	4.8	2.8
22.....				9.0	8.3	8.4	5.1	3.0	4.1	7.2	4.6	3.6
23.....			9.4	9.2	8.4	8.2	4.9	3.0	4.0	7.5	4.5	2.6
24.....			9.8	9.4	8.4	8.0	4.6	3.0	4.0	7.8	4.4	1.6
25.....			9.8	9.4	8.3	7.8	4.4	2.9	4.0	8.2	4.3	1.4
26.....			10.6	9.6	8.2	7.6	4.2	2.8	4.5	8.5	4.1	2.2
27.....			10.9	9.6	8.2	7.3	4.0	2.6	4.4	8.6	4.0	2.7
28.....			10.7	9.5	8.0	7.0	4.0	2.6	4.4	8.4	3.9	3.5
29.....			10.0	9.3	8.0	6.7	3.8	2.6	4.1	8.3	3.8	6.4
30.....			9.3	9.2	7.8	6.4	3.5	2.6	3.9	8.1	3.8	Frozen.
31.....			9.2		7.7		3.6	2.6		7.9		9.2
Means.				8.6	8.5	8.1	5.2	2.8	3.8	5.7	5.9	2.6

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, MUSCATINE, IOWA.

1900.												
1.....	4.7	5.2	3.8	5.9	9.3	4.3	1.9	5.1	4.8	7.6	7.2	5.3
2.....	5.4	5.3	3.7	8.1	9.7	4.0	1.8	4.8	4.9	7.5	7.1	5.1
3.....	5.2	5.3	3.7	9.3	9.9	3.9	1.9	4.6	4.9	7.4	7.4	5.0
4.....	4.0	5.0	3.5	9.7	10.0	3.7	1.9	4.3	5.6	7.4	7.6	4.9
5.....	3.9	4.8	3.4	9.5	9.9	3.6	2.1	4.1	5.1	7.5	7.8	4.8
6.....	3.7	4.5	3.3	9.0	9.6	3.5	2.2	4.0	5.1	7.6	8.0	4.7
7.....	3.5	4.2	3.2	8.5	9.2	3.3	2.0	3.7	4.9	7.6	8.2	4.6
8.....	3.4	4.5	3.3	8.2	8.6	3.2	2.0	3.4	5.0	7.7	8.5	4.6
9.....	3.4	4.8	3.5	8.0	8.1	3.1	2.1	3.3	5.0	8.1	8.7	4.5
10.....	3.4	5.9	3.9	7.6	7.6	3.0	2.5	3.1	5.0	8.2	9.0	4.2
11.....	3.5	7.8	4.2	7.4	6.6	2.8	2.4	2.9	5.0	8.2	9.2	4.1
12.....	3.5	8.2	6.6	7.2	6.5	2.8	2.4	2.9	4.9	8.3	9.6	4.0
13.....	3.9	7.9	8.7	7.1	6.0	2.8	2.2	3.1	4.9	8.5	9.7	3.4
14.....	3.8	7.3	10.5	7.1	5.7	2.9	2.4	3.3	4.9	8.6	10.0	3.0
15.....	3.7	6.8	11.1	7.1	5.6	2.9	3.0	3.6	4.9	9.1	10.1	2.3
16.....	3.7	6.3	11.0	7.1	5.3	2.9	3.9	3.4	4.9	9.6	10.2	2.1
17.....	3.6	5.9	10.7	7.7	5.1	2.9	4.5	3.4	5.0	10.3	10.1	2.0
18.....	3.7	5.4	10.4	8.1	5.2	2.8	4.9	3.9	5.0	11.1	10.0	2.0
19.....	4.1	5.4	10.2	8.8	5.1	2.7	5.0	3.7	5.2	11.7	9.7	1.8
20.....	4.5	5.3	9.7	9.5	5.0	2.7	4.8	3.2	5.3	12.3	9.2	2.0
21.....	4.1	5.2	9.0	9.7	5.0	2.7	5.1	3.2	5.5	12.5	8.6	2.5
22.....	4.2	5.1	8.3	9.6	4.9	2.5	5.4	3.5	5.9	12.5	8.4	2.7
23.....	4.0	4.8	7.5	9.1	4.8	2.5	5.8	3.6	6.4	12.1	7.8	2.8
24.....	4.7	4.6	7.2	8.8	4.8	2.4	5.8	3.8	6.8	11.9	7.4	2.7
25.....	3.7	4.4	7.0	8.5	4.7	2.2	5.8	4.0	7.0	11.4	6.9	2.8
26.....	3.0	3.9	6.3	8.4	4.6	2.2	6.0	4.4	7.2	10.8	6.6	3.1
27.....	2.5	3.9	6.0	8.4	4.6	2.1	5.9	4.6	7.5	10.1	6.3	3.1
28.....	2.5	3.9	6.0	8.4	4.5	2.0	5.8	4.9	7.7	9.5	6.0	3.0
29.....	2.5		5.8	8.6	4.5	1.9	5.7	4.9	7.7	8.8	5.8	2.8
30.....	3.6		5.5	8.9	4.5	1.9	5.6	4.9	7.7	8.0	5.6	2.7
31.....	5.0		5.7		4.4		5.4	4.8		7.5		3.1
Means.	3.8	5.4	6.5	8.3	6.4	2.9	3.8	3.9	5.7	9.3	8.2	3.4

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, MUSCATINE, IOWA—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	3.1	3.6	3.5	10.9	10.0	5.5	4.8	5.3	2.3	2.3	3.2	2.9
2.....	4.6	3.8	3.5	10.9	9.8	5.5	4.7	5.0	2.3	2.2	3.2	2.7
3.....	5.4	4.0	3.5	10.9	9.7	5.5	4.7	4.8	2.2	2.2	3.1	2.6
4.....	5.5	4.2	4.1	10.8	9.4	5.5	4.7	4.4	2.2	2.2	3.0	2.6
5.....	5.7	3.9	4.4	10.8	9.0	5.5	4.8	4.3	2.1	2.3	3.0	2.6
6.....	5.8	4.5	4.4	10.7	8.7	5.5	5.0	4.2	2.1	2.3	3.0	2.6
7.....	6.0	4.3	5.4	10.7	8.5	5.3	5.1	4.1	2.1	2.4	2.9	2.5
8.....	5.9	4.3	6.2	10.6	8.3	5.2	5.5	4.1	2.1	2.5	3.0	2.2
9.....	5.7	4.3	6.3	10.5	8.0	5.0	5.5	4.0	2.0	2.5	3.0	2.2
10.....	5.2	4.3	6.8	10.3	7.7	4.8	5.7	3.9	2.0	2.8	3.0	2.2
11.....	5.5	4.1	7.3	10.1	7.5	4.7	5.9	3.8	2.1	3.1	3.0	2.0
12.....	5.6	4.1	7.4	9.9	7.4	4.5	6.0	3.8	2.1	3.4	3.0	2.1
13.....	5.6	4.0	7.9	9.7	7.3	4.5	6.1	3.7	2.2	3.7	3.2	2.2
14.....	5.6	4.0	8.5	9.6	7.2	4.4	6.2	3.6	2.4	3.9	3.2	2.6
15.....	5.4	4.0	8.6	9.6	6.9	4.3	6.3	3.5	2.5	3.9	3.2	2.6
16.....	5.3	3.9	7.6	9.7	6.8	4.3	6.4	3.4	2.6	3.8	3.3	2.4
17.....	4.1	3.9	7.8	9.7	6.7	4.2	6.5	3.3	2.7	3.8	3.3	2.2
18.....	4.3	3.8	8.4	9.9	6.6	4.2	6.5	3.2	2.7	3.8	3.3	2.0
19.....	4.6	3.8	8.5	10.1	6.5	4.2	6.5	3.1	2.7	3.7	3.2	1.9
20.....	4.6	3.7	9.6	10.3	6.3	4.1	6.5	3.1	2.6	3.7	3.1	1.9
21.....	4.7	3.7	10.6	10.4	6.3	4.1	6.4	3.0	2.5	3.7	3.1	2.2
22.....	4.5	3.7	11.1	10.4	6.2	4.1	6.3	2.9	2.4	3.7	3.1	2.2
23.....	4.4	3.7	11.1	10.5	6.1	4.3	6.2	2.9	2.3	3.7	3.1	2.2
24.....	4.5	3.7	10.9	10.5	6.0	4.4	6.1	2.9	2.3	3.7	3.2	2.4
25.....	4.2	3.7	10.5	10.4	5.9	4.4	5.9	2.9	2.3	3.8	3.2	2.4
26.....	4.2	3.7	10.6	10.4	5.7	4.6	5.8	2.8	2.3	3.7	3.3	2.4
27.....	4.2	3.6	10.6	10.3	5.6	4.6	5.6	2.7	2.3	3.6	3.1	2.7
28.....	4.2	3.6	10.7	10.2	5.6	4.7	5.5	2.7	2.3	3.6	3.0	2.8
29.....	4.0		10.7	10.0	5.6	4.6	5.4	2.7	2.3	3.5	3.0	3.0
30.....	4.0		10.7	10.0	5.6	4.8	5.3	2.5	2.3	3.3	2.9	3.2
31.....	3.8		10.7		5.5		5.3	2.5		3.2		3.3
Means.	4.8	3.9	8.0	10.3	7.2	4.7	5.7	3.5	2.3	3.2	3.1	2.4
<b>1902</b>												
1.....	3.3	2.9	4.7	4.7	2.7	10.8	6.6	6.6	2.6	3.7	3.1	7.1
2.....	3.3	2.8	5.5	4.8	2.8	10.5	6.4	6.3	2.6	3.7	3.0	6.9
3.....	3.3	2.6	6.8	4.4	2.8	10.0	6.5	6.0	2.4	3.7	3.0	6.7
4.....	3.2	2.6	7.2	4.4	3.0	10.0	6.5	5.8	2.3	3.7	3.0	6.5
5.....	3.2	2.6	7.2	4.4	3.7	10.9	6.8	5.7	2.3	3.6	3.3	6.3
6.....	3.1	2.4	7.0	4.4	4.5	11.0	7.1	5.7	2.3	3.6	3.6	6.0
7.....	3.2	2.6	6.8	4.3	5.7	10.6	7.0	5.4	2.5	3.6	3.8	5.0
8.....	3.2	2.6	5.7	4.3	5.9	10.2	7.1	5.1	3.1	3.6	4.0	4.9
9.....	3.1	2.6	5.3	4.1	6.3	10.2	7.9	4.9	3.3	3.6	3.8	4.8
10.....	3.0	2.7	5.8	4.1	6.5	10.0	8.4	4.7	3.5	3.6	4.0	4.0
11.....	3.0	2.9	6.1	3.9	6.6	10.0	8.9	4.6	3.4	3.4	4.1	3.3
12.....	2.9	2.9	6.0	3.9	6.8	9.2	8.7	4.5	3.4	3.3	4.1	2.7
13.....	2.7	2.7	6.1	3.8	7.2	8.9	8.3	5.3	3.3	3.3	4.2	2.6
14.....	2.7	2.7	6.5	4.0	7.4	9.0	7.9	5.2	3.2	3.2	4.2	2.6
15.....	2.7	2.7	6.6	3.4	7.7	9.6	7.7	4.4	3.0	3.3	4.2	2.7
16.....	2.7	2.7	6.3	3.4	8.0	9.6	7.5	4.3	3.0	3.5	4.4	2.8
17.....	2.9	2.7	6.1	3.3	8.1	9.2	7.6	4.2	2.9	3.5	4.5	2.6
18.....	2.9	2.6	5.8	3.3	8.2	8.8	9.1	4.3	2.8	3.9	4.6	3.0
19.....	2.8	2.4	5.6	3.0	8.3	8.5	10.0	4.1	2.8	4.1	4.6	3.1
20.....	2.8	2.4	5.0	3.0	9.2	8.3	10.0	4.2	2.8	4.1	4.8	3.4
21.....	2.8	2.5	4.8	2.9	9.6	8.0	9.7	4.7	2.7	4.0	5.0	3.7
22.....	2.8	2.7	4.5	2.8	9.8	7.7	9.2	4.9	2.6	3.8	5.3	3.8
23.....	2.7	2.7	4.1	2.8	10.0	7.5	8.7	4.8	2.8	3.4	5.7	4.2
24.....	2.7	2.7	4.0	3.0	10.3	7.2	8.7	4.5	3.0	3.3	6.1	4.3
25.....	2.7	2.7	4.0	3.0	10.9	7.1	8.4	4.1	3.7	3.1	6.6	4.4
26.....	2.7	2.7	4.2	2.5	11.7	6.9	8.1	3.8	4.3	3.3	6.8	4.4
27.....	2.7	2.8	4.7	2.6	11.9	7.0	7.9	3.6	4.2	3.3	7.0	4.6
28.....	2.7	3.3	5.0	2.8	12.0	7.2	7.6	3.3	3.8	3.3	7.2	4.8
29.....	2.8		4.9	2.7	12.0	7.0	7.7	3.1	3.5	3.3	7.2	5.2
30.....	2.8		4.9	2.7	11.7	6.8	7.5	2.9	3.5	3.1	7.2	6.3
31.....	2.8		5.0		11.4		7.0	2.9		3.1		7.6
Means.	2.9	2.7	5.6	3.6	7.8	8.9	8.0	4.6	3.1	3.5	4.7	4.5



## DESCRIPTION OF RIVER GAGES, ETC.

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## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, MUSCATINE, IOWA—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	8.3	4.6	5.0	11.1	9.6	13.7	5.8	7.8	7.2	14.6	11.0	3.7
2.....	8.4	4.6	6.0	11.5	9.5	14.0	5.5	7.4	7.2	14.5	10.8	3.5
3.....	8.2	4.8	6.6	11.8	9.3	14.2	5.3	7.0	7.1	14.4	10.3	3.4
4.....	8.3	4.7	7.3	12.0	9.1	14.4	5.4	6.9	7.0	14.7	10.0	3.4
5.....	8.3	4.7	7.2	12.0	8.7	14.6	5.4	7.2	6.9	13.7	9.7	3.4
6.....	7.3	4.6	6.4	11.9	8.7	14.6	5.7	7.6	6.8	13.4	9.4	3.4
7.....	7.3	4.6	6.4	11.7	8.6	14.5	5.4	8.3	6.7	13.4	9.1	3.6
8.....	7.2	4.6	7.2	11.5	8.6	14.4	5.3	8.4	6.5	13.2	8.8	3.9
9.....	6.8	4.5	8.0	11.2	8.5	14.3	5.3	7.9	6.2	13.0	8.6	3.7
10.....	6.6	4.3	8.7	10.8	8.6	14.1	5.9	7.1	6.6	12.9	8.2	3.8
11.....	6.5	4.5	8.5	10.9	8.9	13.9	7.0	6.9	6.8	12.6	8.0	3.8
12.....	6.5	4.8	8.4	11.0	9.1	13.7	8.7	6.7	7.0	12.3	7.8	3.9
13.....	6.4	5.0	8.1	10.9	9.4	13.4	9.6	6.6	6.9	11.8	7.6	4.5
14.....	6.5	5.3	7.8	11.3	9.7	13.1	11.0	6.7	7.0	11.3	7.4	5.2
15.....	6.5	5.7	7.7	11.7	10.0	12.5	11.4	6.8	7.9	11.2	7.2	6.2
16.....	6.3	5.8	7.7	11.9	10.2	12.2	11.3	7.0	8.3	11.0	7.0	6.7
17.....	6.1	5.9	7.5	11.9	10.2	11.7	11.3	7.2	8.5	11.0	6.6	7.2
18.....	5.7	5.0	7.5	11.8	10.4	11.3	11.2	7.4	8.6	11.2	6.3	7.4
19.....	5.5	4.5	7.7	11.7	10.5	10.7	11.2	7.5	8.6	11.4	6.3	7.5
20.....	5.1	4.4	8.1	11.3	10.5	10.3	11.5	7.6	8.7	11.8	6.0	7.4
21.....	4.9	4.6	8.7	11.0	10.4	9.7	11.9	7.6	9.0	12.0	5.7	7.3
22.....	4.8	4.5	9.0	10.7	10.6	9.3	12.5	7.6	9.3	12.2	5.3	7.3
23.....	4.7	4.3	9.3	10.6	10.7	8.9	12.1	7.4	9.9	12.4	5.3	6.9
24.....	4.6	4.1	9.4	10.4	11.0	8.4	11.8	7.2	10.6	12.6	5.3	7.1
25.....	4.5	3.9	9.9	10.3	11.2	8.0	11.4	7.1	11.5	12.6	5.1	7.1
26.....	4.6	3.8	9.9	10.3	11.5	7.7	11.1	6.9	12.3	12.4	5.0	6.7
27.....	4.7	4.0	9.9	10.1	12.0	7.3	10.3	7.0	13.2	12.2	5.0	5.9
28.....	4.6	4.4	10.0	9.9	12.3	6.9	9.7	7.2	13.9	12.0	4.5	5.6
29.....	4.6	-----	10.2	9.7	12.6	6.4	9.2	7.1	14.3	11.8	3.5	6.1
30.....	4.6	-----	10.3	9.6	13.2	6.2	8.7	7.2	14.6	11.5	3.0	6.0
31.....	4.6	-----	10.7	-----	13.4	-----	8.3	7.3	-----	11.3	-----	5.9
<b>Means.</b>	6.1	4.7	8.2	11.1	10.2	11.5	8.9	7.3	8.8	12.5	7.1	5.4
<b>1904</b>												
1.....	5.9	4.5	5.1	11.9	10.8	8.8	7.2	4.3	3.4	4.7	8.8	4.5
2.....	5.7	4.3	5.7	11.1	10.6	8.7	7.0	4.2	3.5	4.6	8.7	4.4
3.....	5.5	4.2	6.5	11.0	10.2	8.7	6.7	4.1	3.5	4.5	8.6	3.7
4.....	5.4	4.2	7.3	10.8	10.0	9.0	6.6	4.0	3.6	4.7	8.5	3.7
5.....	5.2	4.2	8.1	10.3	10.0	8.9	6.6	3.9	3.9	4.8	8.5	4.0
6.....	5.2	4.3	8.2	10.0	9.9	9.0	6.6	3.8	4.2	5.0	8.5	3.9
7.....	5.2	4.7	8.3	9.6	10.1	9.4	6.9	3.7	4.1	5.1	8.4	3.7
8.....	5.0	5.1	8.4	9.4	10.3	9.7	6.9	3.7	4.1	5.1	8.3	3.6
9.....	5.1	6.7	8.1	9.3	10.5	10.0	6.8	3.7	4.0	5.1	8.2	3.4
10.....	5.1	7.5	8.2	9.2	10.6	10.1	6.8	3.6	4.0	5.0	8.0	3.0
11.....	5.0	7.4	8.4	9.1	10.6	10.3	6.7	3.6	4.1	5.1	7.9	2.9
12.....	4.9	6.9	8.2	9.6	10.6	10.4	6.6	3.5	4.3	5.2	7.7	2.8
13.....	4.9	6.3	6.9	9.7	10.5	10.4	6.6	3.5	4.4	5.3	7.6	2.8
14.....	4.9	6.0	6.5	9.6	10.4	10.1	6.6	3.5	4.6	5.4	7.4	2.7
15.....	4.8	5.8	6.5	9.5	10.2	9.9	6.6	3.5	4.8	5.4	7.0	2.4
16.....	4.8	5.4	6.5	9.5	10.0	9.8	6.5	3.4	4.9	5.5	6.8	3.6
17.....	4.8	5.2	6.5	9.5	9.8	9.8	6.4	3.4	5.0	5.7	6.5	4.2
18.....	4.8	5.0	6.5	9.5	9.6	9.8	6.4	3.4	5.0	6.1	6.2	4.8
19.....	4.8	4.8	6.5	9.8	9.6	9.8	6.3	3.4	4.9	6.5	6.0	4.6
20.....	5.1	4.7	7.6	10.0	9.6	9.8	6.3	3.5	5.6	6.9	5.8	4.4
21.....	6.5	4.6	6.8	10.2	9.6	9.8	6.1	3.6	5.8	7.3	5.6	4.5
22.....	6.4	4.5	8.1	10.4	9.6	9.7	6.0	3.8	5.1	7.7	5.4	4.8
23.....	6.4	4.4	10.2	10.6	9.6	9.6	5.8	3.9	4.9	8.0	5.3	5.1
24.....	6.4	4.4	10.2	10.7	9.7	9.2	5.5	3.9	4.8	8.3	5.2	5.0
25.....	6.2	4.4	11.8	11.1	9.7	9.1	5.3	3.9	4.8	8.9	5.1	4.9
26.....	5.2	4.4	12.3	11.3	9.5	8.8	5.1	3.8	4.8	9.2	4.9	4.6
27.....	5.0	4.4	12.9	11.1	9.4	8.5	4.9	3.7	5.2	9.4	4.7	5.3
28.....	4.9	4.4	13.2	11.0	9.4	8.2	4.8	3.6	5.4	9.4	4.6	4.7
29.....	4.8	4.6	12.5	11.1	9.2	7.8	4.7	3.6	5.1	9.3	4.5	4.3
30.....	4.8	-----	11.8	11.0	9.1	7.4	4.5	3.5	4.8	9.2	4.5	4.9
31.....	4.8	-----	11.4	-----	9.1	-----	4.4	3.4	-----	9.1	-----	5.0
<b>Means.</b>	5.3	5.1	8.6	10.2	9.9	9.4	6.1	3.7	4.6	6.5	6.8	4.1

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, GALLAND, IOWA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	Frozen.	Frozen.	Frozen.	3.2	4.2	2.0	0.9	2.6	2.2	3.7	4.0	2.5
2.....				3.8	4.2	1.9	0.9	2.4	2.2	3.7	3.8	2.5
3.....				4.2	4.4	1.8	0.9	2.2	2.2	3.7	3.8	2.4
4.....				5.1	4.5	1.7	0.8	2.1	2.2	3.6	3.8	2.2
5.....				5.4	4.5	1.6	0.8	1.9	2.2	3.5	3.8	2.1
6.....				5.4	4.6	1.5	0.9	1.8	2.2	3.6	3.9	2.1
7.....				5.3	4.7	1.4	0.9	1.6	2.2	3.7	4.1	2.0
8.....				5.0	4.6	1.3	1.0	1.5	2.2	3.8	4.2	2.0
9.....				4.9	4.5	1.3	0.9	1.4	2.2	3.8	4.2	2.0
10.....	0.8			4.5	4.2	1.3	0.8	1.3	2.2	3.9	4.3	2.0
11.....	0.9		2.4	4.4	4.0	1.2	0.9	1.3	2.2	3.9	4.4	2.0
12.....	0.9		3.4	4.2	3.6	1.2	0.9	1.3	2.2	3.9	4.5	2.1
13.....	1.0	2.9	4.4	3.9	3.6	1.2	1.0	1.2	2.1	4.0	4.6	1.8
14.....	0.7	3.4	5.5	3.7	3.0	1.2	1.0	1.2	2.1	4.0	4.8	1.5
15.....	0.5	3.5	5.5	3.4	2.6	1.3	1.0	1.3	2.1	4.1	4.8	1.4
16.....	1.0	3.8	5.5	3.5	2.6	1.4	1.1	2.0	2.1	4.2	5.0	1.2
17.....	1.0	Frozen.	5.4	3.6	2.6	1.4	1.5	2.1	2.0	4.4	5.0	0.8
18.....	Frozen.		4.8	4.1	2.4	1.4	1.8	2.0	2.0	4.4	4.9	0.7
19.....			4.8	4.4	2.4	1.4	2.0	2.1	2.1	5.0	5.2	0.8
20.....			5.3	4.6	2.4	1.3	2.7	2.1	2.5	5.2	5.1	0.8
21.....			5.2	4.8	2.4	1.3	2.3	2.0	2.5	5.5	4.8	0.7
22.....			4.2	5.0	2.3	1.4	2.2	1.8	2.4	5.6	4.7	0.8
23.....			4.1	5.0	2.3	1.5	2.4	1.6	2.5	5.8	4.3	0.9
24.....			4.2	4.8	2.2	1.5	2.7	1.6	2.8	5.9	4.1	1.2
25.....			3.8	4.6	2.1	1.4	2.9	1.8	2.8	5.9	3.8	1.2
26.....			3.6	4.4	2.1	1.3	2.8	2.0	3.2	5.7	3.6	1.0
27.....			3.2	4.2	2.0	1.2	2.8	1.9	3.4	5.5	3.3	1.2
28.....			3.2	4.1	2.0	1.1	2.8	2.0	3.7	5.2	3.1	0.9
29.....			3.1	4.1	2.0	1.1	2.8	2.2	3.7	4.9	2.9	0.9
30.....			2.9	4.1	2.0	0.9	2.5	2.3	3.8	4.4	2.6	0.9
31.....			2.9		2.1		2.5	2.2		4.1		0.6
<b>Means.</b>			4.2	4.4	3.1	1.0	1.7	1.8	2.5	4.5	4.2	1.5
<b>1901</b>												
1.....	1.0	1.1	Frozen.	5.8	4.8	2.4	2.0	2.3	0.9	0.8	1.3	1.0
2.....	1.0	1.2		5.8	4.8	2.4	2.0	2.2	0.8	0.8	1.3	1.0
3.....	1.0	1.2	0.6	6.0	4.6	2.4	2.0	2.1	0.7	0.7	1.4	1.0
4.....	1.0	0.6	1.3	6.1	4.6	2.4	2.0	2.0	0.7	0.7	1.2	0.9
5.....	1.4	0.8	1.4	6.0	4.6	2.4	2.0	1.9	0.7	0.7	1.2	0.9
6.....	1.0	1.0	2.3	6.0	4.5	2.7	2.0	1.8	0.7	0.7	1.2	0.9
7.....	1.0	1.1	2.3	6.0	4.4	2.5	2.0	1.7	0.7	0.7	1.1	0.9
8.....	1.0	1.2	2.3	5.9	4.3	2.4	2.0	1.6	0.7	0.8	1.1	0.6
9.....	1.4	1.1	2.4	5.8	4.1	2.4	2.1	1.6	0.7	0.8	1.1	0.6
10.....	1.8	1.1	2.6	5.7	4.0	2.5	2.2	1.6	0.6	0.8	1.1	0.6
11.....	1.8	1.4	3.4	5.6	3.9	2.3	2.4	1.6	0.6	0.9	1.1	0.6
12.....	1.4	1.4	4.2	5.4	3.8	2.1	2.5	1.5	0.6	1.0	1.1	0.6
13.....	1.4	1.2	4.0	5.3	3.6	2.0	2.6	1.4	0.7	1.2	1.1	0.6
14.....	1.1	1.2	4.2	5.2	3.6	2.0	2.6	1.4	0.7	1.4	1.1	0.7
15.....	1.1	1.2	4.3	5.0	3.4	1.9	2.6	1.4	0.8	1.4	1.2	0.8
16.....	1.3	1.2	4.2	4.8	3.3	1.8	2.8	1.3	0.8	1.5	1.2	0.6
17.....	1.5	1.1	4.2	4.8	3.2	1.8	2.8	1.3	0.8	1.5	1.2	Frozen.
18.....	1.4	1.0	4.5	5.0	3.2	1.8	2.8	1.3	0.9	1.5	1.2	
19.....	1.6	1.6	4.6	5.0	3.1	1.8	2.9	1.2	1.0	1.4	1.2	
20.....	1.2	1.0	5.1	5.0	3.1	1.8	2.9	1.2	1.0	1.4	1.1	
21.....	1.2	Frozen.	5.5	5.2	3.1	1.7	2.8	1.2	0.9	1.4	1.1	
22.....	1.4		5.9	5.2	2.9	1.6	2.8	1.1	0.9	1.4	1.2	
23.....	1.4		6.1	5.3	2.8	1.8	2.8	1.0	0.9	1.4	1.2	
24.....	1.4		6.4	5.3	2.8	1.7	2.7	1.0	0.8	1.4	1.2	
25.....	1.3		6.4	5.3	2.7	1.8	2.7	1.0	0.8	1.5	1.2	
26.....	1.3		6.4	5.2	2.6	1.8	2.6	1.0	0.8	1.5	1.2	
27.....	1.2		6.1	5.2	2.6	1.9	2.5	1.0	0.8	1.5	1.2	
28.....	1.2		6.1	5.2	2.6	2.0	2.4	1.0	0.8	1.5	1.1	
29.....	1.2		6.0	5.1	2.5	2.0	2.4	0.9	0.8	1.5	1.0	
30.....	1.2		5.9	4.9	2.5	2.0	2.4	0.9	0.8	1.5	1.0	
31.....	1.1		5.8		2.5		2.3	0.9		1.4		
<b>Means.</b>	1.3	1.1	4.3	5.4	3.5	2.1	2.4	1.4	0.8	1.2	1.2	0.8

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, GALLAND, IOWA—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	Frozen.	Frozen.	Frozen.	3.1	1.2	6.0	3.9	4.0	2.4	2.6	1.8	3.8
2.....				3.0	1.0	6.0	3.7	3.8	2.2	2.7	1.8	3.8
3.....				2.9	1.0	5.7	3.8	3.5	2.0	2.8	1.8	3.8
4.....				2.8	1.2	5.3	3.8	3.4	1.8	3.0	1.8	3.7
5.....			2.8	2.6	1.2	5.1	3.7	4.0	1.8	3.5	1.8	3.6
6.....			2.3	2.5	1.5	5.1	3.8	4.0	1.7	3.2	2.2	3.4
7.....			2.6	2.5	1.9	5.4	3.9	4.0	1.7	3.2	2.4	3.5
8.....			2.5	2.5	2.5	5.5	4.0	3.8	1.8	3.0	2.4	3.6
9.....			2.5	2.5	2.9	5.4	4.2	3.4	1.9	2.8	2.4	3.3
10.....			2.4	2.4	3.0	5.2	4.8	3.2	2.1	2.6	2.2	3.0
11.....			2.6	2.3	3.2	5.4	5.4	3.8	2.2	2.5	2.2	3.1
12.....			2.9	2.2	3.3	5.6	5.5	3.3	2.2	2.4	2.2	1.8
13.....			2.9	2.1	3.4	5.7	5.7	2.9	2.2	2.2	2.2	1.3
14.....			2.9	2.0	3.5	5.5	5.6	2.8	2.0	2.3	2.2	1.3
15.....			3.0	2.0	3.7	5.4	5.8	3.4	1.9	2.3	2.4	1.4
16.....			3.2	1.8	3.8	5.3	5.9	3.4	1.6	2.4	2.4	1.3
17.....			3.2	1.6	3.8	5.3	5.8	3.3	1.5	2.3	2.6	1.6
18.....			3.0	1.5	3.9	5.3	6.0	3.8	1.5	2.3	2.8	1.6
19.....			2.6	1.4	3.9	5.2	6.6	4.8	1.4	3.4	2.8	1.3
20.....			2.5	1.4	4.0	5.1	7.0	4.6	1.4	4.3	2.8	1.4
21.....			2.2	1.3	4.2	4.8	7.5	4.6	1.4	4.0	2.8	2.0
22.....			2.2	1.2	4.4	4.7	7.5	4.6	1.4	4.1	2.8	2.6
23.....			2.1	1.0	4.7	4.5	7.2	4.4	1.4	3.9	3.5	3.0
24.....			2.1	1.0	4.8	4.4	6.6	4.3	1.4	3.3	3.2	3.0
25.....			2.1	1.3	5.1	4.2	5.8	4.3	2.0	2.9	3.4	3.4
26.....			1.6	1.3	5.1	4.1	5.4	4.1	2.4	2.5	3.6	3.5
27.....			1.8	1.4	5.4	3.9	5.0	3.8	2.9	2.4	3.7	2.4
28.....			1.9	1.3	5.6	4.2	4.8	3.5	3.1	2.3	3.8	2.1
29.....			2.2	1.2	5.8	4.4	4.9	3.1	2.8	2.2	3.8	2.1
30.....			2.3	1.3	5.9	4.1	4.4	2.8	2.4	2.1	3.8	2.0
31.....			2.4		6.0		4.2	2.5		2.0		2.0
<b>Means.</b>			2.5	1.9	3.6	5.1	5.2	3.7	1.9	2.8	2.7	2.6
<b>1903</b>												
1.....	2.5	1.8	2.6	5.5	5.0	7.2	3.1	4.3	3.8	6.9	5.7	1.6
2.....	2.0	1.4	2.6	5.6	4.8	7.7	3.0	4.0	3.8	7.2	5.6	1.4
3.....	2.0	1.6	2.7	5.6	4.8	8.4	2.7	3.7	3.7	7.5	5.5	1.4
4.....	2.6	1.6	2.4	6.0	4.7	9.6	2.6	3.5	3.7	7.5	5.3	1.5
5.....	2.6	1.8	2.6	6.2	4.6	10.4	2.6	3.4	3.7	7.6	5.1	1.6
6.....	2.6	1.8	2.8	6.2	4.5	10.6	2.6	3.6	3.6	7.5	4.8	1.3
7.....	2.4	1.3	3.6	6.2	4.4	10.4	2.7	3.7	3.5	7.7	4.7	1.6
8.....	2.7	1.1	5.5	6.2	4.4	10.1	2.8	3.8	3.4	7.6	4.5	1.6
9.....	3.1	1.0	4.9	6.1	4.3	9.8	2.7	4.2	3.3	7.5	4.3	1.6
10.....	3.4	1.2	5.3	6.0	4.3	9.4	2.6	4.2	3.7	7.3	4.1	1.6
11.....	3.3	1.2	5.4	6.2	4.3	9.0	2.6	4.0	3.7	7.0	4.0	1.6
12.....	3.5	1.4	5.2	6.2	4.4	8.7	3.0	3.8	3.9	6.8	3.8	1.4
13.....	2.5	2.0	5.1	6.2	4.5	8.4	4.0	3.7	3.9	6.6	3.7	1.0
14.....	2.4	2.2	4.9	6.4	4.5	8.2	4.6	3.7	3.8	6.4	4.0	Frozen.
15.....	2.5	2.2	4.8	6.3	4.7	8.0	5.1	3.5	3.9	6.2	3.7	
16.....	2.3	2.5	4.6	6.4	4.8	7.4	5.4	3.5	4.3	5.9	3.6	
17.....	2.1	2.8	4.6	6.4	5.0	7.1	5.6	3.4	3.5	5.8	3.3	
18.....	2.4	2.3	4.6	6.4	5.0	6.6	5.7	3.4	4.5	5.7	3.2	
19.....	2.4	2.5	4.5	6.3	5.1	6.4	5.8	3.5	4.6	5.6	3.2	
20.....	2.4	2.5	4.6	6.3	5.3	6.0	5.8	3.6	4.4	5.6	3.1	
21.....	2.6	1.5	4.8	6.3	5.3	5.6	5.8	3.6	4.4	5.7	2.7	
22.....	2.6	1.8	4.8	6.1	5.3	5.4	5.8	3.6	4.5	5.8	2.4	
23.....	2.5	1.6	5.1	5.9	5.4	5.1	6.0	3.6	4.6	5.9	2.2	
24.....	2.4	1.6	5.1	5.7	5.5	4.8	6.0	3.5	4.9	6.0	2.2	
25.....	2.0	1.5	5.1	5.6	5.5	4.6	6.0	3.4	5.1	6.0	2.3	
26.....	1.6	1.4	5.2	5.5	5.6	4.4	6.0	3.4	5.3	6.1	2.4	
27.....	1.4	1.2	5.3	5.3	5.7	4.1	5.8	3.4	5.7	6.1	2.2	
28.....	1.4	1.6	5.4	5.2	6.0	3.9	5.5	4.0	5.9	6.1	2.2	
29.....	1.4		5.4	5.1	6.2	3.6	5.2	4.1	6.3	6.0	2.1	
30.....	2.0		5.4	5.0	6.4	3.4	4.8	4.0	6.6	5.9	1.9	
31.....	1.8		5.5		6.7		4.5	3.9		5.8		
<b>Means.</b>	2.4	1.7	4.5	5.9	5.1	7.1	4.4	3.7	4.4	6.5	3.6	

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, GALLAND, IOWA—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	Frozen.	Frozen.	Frozen.	6.7	6.3	4.4	3.8	2.2	1.4	2.4	4.2	2.0
2.....				6.4	6.1	4.4	3.5	2.1	1.3	2.1	4.2	1.9
3.....				6.1	5.9	4.4	3.3	1.9	1.3	2.1	4.1	1.9
4.....				5.9	5.8	4.5	3.2	1.8	1.4	2.1	4.0	1.7
5.....				5.7	5.4	4.5	3.1	1.8	1.4	2.0	4.0	1.4
6.....				5.5	5.0	4.5	3.1	1.7	1.2	2.0	4.0	1.6
7.....				5.4	5.2	4.5	3.1	1.6	1.6	2.0	4.0	1.5
8.....				5.0	5.2	4.5	3.4	1.5	1.7	2.0	3.9	1.4
9.....			2.9	5.0	5.4	4.6	3.4	1.4	1.7	2.3	3.8	1.2
10.....			2.9	4.9	5.4	4.7	3.3	1.3	1.7	2.1	3.8	1.2
11.....			2.7	4.8	5.3	4.8	3.3	1.3	1.7	2.1	3.7	1.2
12.....			2.5	4.8	5.4	5.0	3.2	1.3	1.7	2.1	3.7	1.1
13.....			2.8	4.9	5.3	5.0	3.1	1.4	1.7	2.2	3.6	1.0
14.....			2.7	4.9	5.4	5.0	3.1	1.3	1.9	2.3	3.5	1.0
15.....			2.6	4.9	5.3	4.9	3.0	1.3	2.0	2.4	3.4	1.0
16.....			2.6	4.9	5.2	4.9	3.0	1.3	2.0	2.4	3.3	0.8
17.....			2.7	4.9	5.2	4.8	3.0	1.3	2.1	2.4	3.3	0.6
18.....			2.6	4.9	5.0	4.8	2.9	1.3	2.1	2.5	3.0	0.6
19.....			2.7	4.8	4.8	4.8	2.9	1.3	2.5	2.6	2.8	0.9
20.....			3.5	4.8	4.7	4.7	2.9	1.4	3.0	2.7	2.7	0.9
21.....			4.1	4.8	4.6	4.6	2.8	1.6	2.8	3.0	2.6	0.7
22.....			4.5	4.9	4.7	4.6	2.8	1.7	2.8	3.2	2.5	0.9
23.....			4.8	4.9	4.6	4.6	2.7	1.7	2.6	3.4	2.4	0.7
24.....			5.4	5.2	4.6	4.5	2.7	1.6	2.6	3.4	2.4	0.7
25.....			5.6	5.5	4.6	4.5	2.6	1.6	2.3	3.8	2.2	0.6
26.....			6.2	6.1	4.5	4.4	2.5	1.5	2.2	4.0	2.2	0.6
27.....			6.2	6.1	4.5	4.4	2.4	1.4	2.4	4.2	2.2	0.8
28.....			6.7	6.2	4.4	4.2	2.3	1.3	2.6	4.3	2.1	0.8
29.....			6.8	6.3	4.3	4.0	2.2	1.4	2.7	4.4	2.0	Frozen.
30.....			7.2	6.3	4.4	4.0	2.0	1.4	2.6	4.4	2.0	1.8
31.....			7.0		4.4		2.1	1.4		4.2		1.0
Means.....			4.2	5.4	5.1	4.6	2.9	1.5	2.0	2.9	3.2	1.1

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, KEOKUK, IOWA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	Frozen.	Frozen.	Frozen.	5.5	7.0	3.2	1.1	4.2	3.9	6.6	6.6	4.4
2.....				6.2	7.2	3.0	1.1	4.0	3.7	6.6	6.5	4.1
3.....				7.3	7.5	2.8	1.1	3.7	3.7	6.5	6.7	3.9
4.....				8.1	7.7	2.5	1.0	3.4	3.6	6.3	7.1	3.6
5.....				8.9	7.9	2.4	1.0	3.1	3.6	6.2	7.3	3.5
6.....				9.0	7.9	2.3	1.0	2.9	3.6	6.2	7.2	3.4
7.....				8.9	8.0	2.2	1.0	2.6	3.6	6.5	7.3	3.3
8.....	4.2			8.5	7.8	2.0	1.2	2.4	3.6	6.4	7.2	3.3
9.....	4.2			8.2	7.7	1.9	1.0	2.1	3.6	6.4	7.2	3.2
10.....	2.0			7.9	7.3	1.7	0.8	1.9	3.5	6.5	7.4	3.1
11.....	1.9		(a)	7.4	6.9	1.6	0.9	1.8	3.5	6.6	7.6	2.8
12.....	1.5		b 13.0	7.0	6.2	1.6	1.1	1.7	3.5	6.6	7.8	2.5
13.....	2.0	8.0	7.3	6.6	5.5	1.5	1.1	1.6	3.3	6.6	7.9	2.2
14.....	1.7	9.5	11.5	6.2	5.0	1.7	1.1	1.6	3.3	6.6	8.1	2.0
15.....	1.3	11.0	10.3	6.0	4.6	1.8	1.1	1.8	3.3	6.8	8.2	1.3
16.....	1.2	12.4	9.9	5.8	4.4	1.9	1.4	2.7	3.3	7.0	8.4	1.3
17.....	1.1	Frozen.	8.6	6.1	4.2	2.0	2.0	3.4	3.3	7.3	8.5	0.9
18.....	1.5		8.2	7.0	4.1	2.0	2.6	4.0	3.2	7.6	8.5	0.8
19.....	1.4		8.2	7.5	4.1	2.2	3.1	4.5	3.3	8.2	8.6	0.6
20.....	1.4		8.9	7.7	4.1	1.9	3.6	4.7	4.0	8.6	8.5	0.6
21.....	1.9		8.6	8.2	4.1	1.9	3.7	4.6	4.0	9.2	8.3	0.6
22.....	2.2		7.5	8.4	3.9	2.1	3.5	4.1	3.9	9.6	7.9	0.7
23.....	2.2		6.8	8.4	3.8	2.3	3.9	3.9	4.0	9.8	7.4	1.1
24.....	2.2		6.9	8.2	3.7	2.1	4.3	3.6	4.6	10.0	7.0	1.4
25.....	2.4		6.5	7.9	3.5	2.0	4.7	3.5	5.0	9.9	6.4	1.1
26.....	2.1		6.1	7.5	3.4	1.9	4.6	3.5	5.4	9.7	6.2	0.5
27.....	1.4		5.5	7.2	3.3	1.7	4.7	3.4	5.6	9.4	5.6	0.6
28.....	0.8		5.3	7.0	3.2	1.5	4.9	3.6	6.1	8.9	5.2	0.6
29.....	-0.5		5.0	6.9	3.2	1.3	4.8	3.8	6.5	8.4	4.9	0.1
30.....	0.0		5.0	6.9	3.3	1.1	4.6	4.0	6.6	7.8	4.6	0.4
31.....	Frozen.		4.8		3.4		4.4	4.0		7.1		0.4
Means.....	1.8		7.7	7.4	5.3	2.0	2.5	3.2	4.1	7.6	7.2	1.9

a 14.2 at 5 p. m.

b 16.0 at 7 p. m.

## DESCRIPTION OF RIVER GAGES, ETC.

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## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, KEOKUK, IOWA—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	-0.1	0.7	Frozen.	10.6	8.6	4.0	2.9	3.6	0.7	0.4	1.6	1.0
2.....	-0.1	0.8	.....	10.5	8.4	4.0	2.9	3.5	0.6	0.4	1.4	1.0
3.....	0.6	1.7	4.6	10.6	8.3	3.9	2.9	3.3	0.5	0.3	1.4	0.9
4.....	2.3	-0.2	4.2	10.7	8.2	3.9	2.9	3.0	0.4	0.3	1.4	0.9
5.....	3.5	0.0	4.1	10.8	8.1	3.7	2.9	2.8	0.4	0.3	1.2	0.8
6.....	3.3	0.6	4.5	10.9	7.9	4.6	3.0	2.5	0.4	0.3	1.1	0.8
7.....	2.9	0.6	5.2	11.0	7.6	4.1	3.0	2.4	0.4	0.4	1.1	0.7
8.....	2.8	1.6	5.0	11.0	7.3	3.9	3.0	2.4	0.3	0.4	1.1	0.7
9.....	2.1	2.0	4.5	10.9	7.1	3.8	3.3	2.3	0.2	0.5	1.0	0.6
10.....	3.4	3.4	4.6	10.7	6.9	3.9	3.5	2.2	0.2	0.7	1.1	0.4
11.....	2.9	4.0	5.6	10.3	6.7	3.8	3.7	2.1	0.2	0.7	1.2	0.4
12.....	2.4	4.2	7.0	9.8	6.5	3.4	3.9	2.1	0.2	0.8	1.2	0.3
13.....	2.8	5.9	7.1	9.4	6.3	3.2	4.1	2.0	0.3	1.2	1.3	0.2
14.....	2.6	5.4	7.5	9.2	6.1	3.1	4.2	2.0	0.4	1.6	1.2	0.2
15.....	2.0	5.2	7.7	9.0	6.0	2.9	4.2	1.9	0.5	1.8	1.3	-0.8
16.....	1.8	3.9	7.8	8.8	5.8	2.7	4.3	1.8	0.6	2.0	1.4	-1.5
17.....	1.6	4.5	8.0	8.7	5.6	2.9	4.5	1.7	0.7	2.0	1.4	0.0
18.....	1.3	2.6	8.0	8.8	5.4	2.9	4.6	1.6	0.8	1.9	1.4	Frozen.
19.....	1.7	2.4	8.2	8.8	5.3	2.7	4.6	1.5	0.8	1.9	1.4	.....
20.....	1.9	4.9	9.3	8.9	5.1	2.7	4.6	1.4	0.9	1.9	1.4	.....
21.....	1.9	Frozen.	10.0	9.0	5.1	2.6	4.6	1.4	0.8	1.9	1.4	.....
22.....	1.4	.....	10.5	9.1	4.9	2.6	4.6	1.3	0.7	1.9	1.3	.....
23.....	1.8	.....	10.7	9.1	4.8	2.7	4.5	1.2	0.6	1.8	1.3	.....
24.....	1.6	.....	11.2	9.2	4.7	2.7	4.4	1.2	0.6	1.9	1.3	.....
25.....	0.8	.....	11.3	9.2	4.6	2.7	4.3	1.2	0.6	2.0	1.3	.....
26.....	1.5	.....	11.1	9.1	4.5	2.8	4.1	1.1	0.5	1.9	1.3	.....
27.....	1.2	.....	10.9	9.0	4.4	2.9	4.0	1.0	0.5	1.9	1.3	.....
28.....	1.4	.....	10.8	8.9	4.2	3.0	3.9	1.0	0.5	1.9	1.2	.....
29.....	1.0	.....	10.7	8.8	4.1	3.1	3.9	0.9	0.5	1.8	1.1	.....
30.....	0.9	.....	10.7	8.7	4.1	3.0	3.8	0.9	0.4	1.8	1.0	.....
31.....	0.7	.....	10.6	.....	4.1	.....	3.6	0.8	.....	1.8	.....	.....
Means.	1.8	2.7	8.0	9.7	6.0	3.3	3.8	1.9	0.5	1.3	1.3	0.4
<b>1902</b>												
1.....	Frozen.	Frozen.	Frozen.	3.1	1.2	10.2	6.8	7.4	5.0	5.6	3.6	6.3
2.....	.....	.....	.....	3.0	1.0	10.3	6.4	6.8	4.6	6.4	3.4	6.7
3.....	.....	.....	.....	2.9	1.2	10.2	6.7	6.4	4.5	6.6	3.4	6.6
4.....	.....	.....	.....	2.8	1.2	9.5	6.6	6.3	4.5	6.6	3.4	6.6
5.....	.....	.....	4.6	2.6	1.4	9.2	6.4	7.3	4.3	7.1	3.8	6.4
6.....	.....	.....	3.8	2.5	2.0	9.0	6.6	7.5	3.9	7.6	4.8	6.1
7.....	.....	.....	4.8	2.5	2.8	9.2	6.8	7.3	3.7	7.4	4.9	5.5
8.....	.....	.....	4.4	2.5	3.7	9.6	7.0	6.8	3.9	6.8	4.6	4.9
9.....	.....	.....	4.2	2.5	4.5	9.4	7.2	6.2	4.2	6.3	4.4	4.2
10.....	.....	.....	4.2	2.4	4.7	9.0	8.4	5.6	4.5	5.8	4.2	4.0
11.....	.....	.....	4.2	2.3	5.0	9.4	10.0	6.7	4.5	5.3	4.2	3.6
12.....	.....	.....	4.7	2.2	5.2	9.9	10.7	6.0	4.4	4.8	4.1	3.0
13.....	.....	.....	4.7	2.1	5.4	9.9	11.0	5.2	4.3	4.6	4.1	2.8
14.....	.....	.....	4.6	2.0	5.7	9.5	11.1	4.8	3.8	5.1	4.3	1.8
15.....	.....	.....	4.8	2.0	6.0	9.4	12.6	5.6	3.4	5.0	4.4	2.2
16.....	.....	.....	5.2	1.8	6.1	9.2	13.5	5.8	3.1	5.0	4.9	2.2
17.....	.....	.....	5.1	1.6	6.2	9.2	13.0	6.0	2.8	5.0	5.3	2.2
18.....	.....	.....	4.5	1.5	6.4	9.2	12.6	6.8	2.8	4.8	5.5	2.2
19.....	.....	.....	4.0	1.4	6.4	9.0	13.8	9.4	2.6	7.0	5.6	2.7
20.....	.....	.....	4.1	1.4	6.5	8.9	15.1	9.8	2.5	8.3	5.5	2.9
21.....	.....	.....	3.7	1.3	6.9	8.6	15.5	9.9	2.4	8.4	5.6	4.5
22.....	.....	.....	3.4	1.2	7.5	8.2	15.1	10.0	2.4	8.6	5.8	6.2
23.....	.....	.....	3.1	1.0	7.8	7.7	14.3	9.5	2.3	8.7	5.9	6.1
24.....	.....	.....	2.8	1.0	8.1	7.4	13.4	9.0	2.2	7.8	6.1	6.2
25.....	.....	.....	2.5	1.3	8.4	7.2	11.8	8.6	3.4	6.0	6.4	6.3
26.....	.....	.....	2.5	1.3	9.0	6.9	10.2	8.2	4.1	5.4	6.6	5.8
27.....	.....	.....	2.5	1.4	9.4	6.6	9.6	7.9	4.9	4.9	6.8	3.5
28.....	.....	.....	2.9	1.3	9.8	7.1	9.0	7.2	5.7	4.6	6.8	3.0
29.....	.....	.....	3.2	1.2	10.0	7.6	8.5	6.6	5.4	4.4	7.0	2.4
30.....	.....	.....	3.5	1.3	10.2	7.2	8.0	5.7	4.8	4.0	7.0	2.8
31.....	.....	.....	3.3	.....	10.2	.....	7.8	5.4	.....	3.9	.....	2.7
Means.	.....	.....	3.9	1.9	5.7	8.8	10.2	7.2	3.8	6.1	5.1	4.3

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, KEOKUK, IOWA—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	3.3	2.3	4.0	9.8	8.9	16.5	5.9	7.6	7.9	12.4	10.0	2.0
2.....	3.6	2.4	4.1	10.1	8.6	17.8	5.4	7.2	7.7	12.9	9.7	1.3
3.....	3.8	2.4	5.3	10.4	8.5	18.5	5.0	6.8	7.3	13.7	9.5	1.7
4.....	4.0	2.8	4.8	10.8	8.4	19.1	4.8	6.4	6.8	13.6	9.2	1.5
5.....	4.1	2.4	5.1	10.9	8.2	19.4	4.9	6.2	6.6	13.8	8.9	1.4
6.....	3.9	2.3	5.4	11.0	8.0	19.4	5.1	6.5	6.4	13.6	8.5	1.5
7.....	4.2	2.2	6.8	11.0	7.9	19.2	5.2	6.6	6.2	14.3	8.2	1.1
8.....	3.2	2.4	8.8	11.0	7.8	18.6	5.2	6.9	5.9	14.2	7.8	1.7
9.....	3.0	1.8	9.2	10.8	7.8	18.1	5.0	7.6	5.7	13.8	7.6	1.9
10.....	3.3	2.1	9.1	10.6	7.8	17.5	4.8	7.6	6.6	13.2	7.3	1.6
11.....	3.7	2.2	9.6	11.7	7.7	16.9	4.8	7.1	7.4	12.7	7.1	1.8
12.....	3.6	2.4	9.6	11.4	7.8	16.1	5.6	6.6	7.6	12.2	6.8	2.6
13.....	3.2	2.3	9.4	11.5	7.9	15.5	6.8	6.5	7.2	11.8	6.5	3.6
14.....	3.6	3.3	9.1	11.6	8.1	14.9	8.1	6.6	7.1	11.4	6.6	Frozen.
15.....	3.5	3.6	8.8	11.4	8.3	14.2	9.2	6.3	7.2	11.1	6.3	.....
16.....	3.2	3.2	8.6	11.4	8.8	13.6	9.8	6.1	7.8	10.5	6.0	.....
17.....	3.2	3.8	8.8	11.3	9.2	12.9	10.1	5.9	8.2	10.3	5.5	.....
18.....	3.2	4.2	8.8	11.3	9.6	12.2	10.3	5.9	8.3	10.1	5.4	.....
19.....	3.2	3.6	8.5	11.3	9.7	11.6	10.4	6.1	8.2	10.0	5.1	.....
20.....	3.3	5.4	8.7	11.3	9.8	10.9	10.4	6.3	8.0	10.0	4.9	.....
21.....	2.8	6.0	8.9	11.2	9.8	10.4	10.4	6.4	8.1	10.1	4.6	.....
22.....	2.9	6.2	9.1	10.9	9.9	10.0	10.6	6.4	8.2	10.2	4.4	.....
23.....	2.6	5.9	9.4	10.7	9.9	9.6	10.8	6.3	8.5	10.4	4.2	.....
24.....	2.6	5.5	9.5	10.3	10.4	9.2	11.0	6.2	8.9	10.6	3.9	.....
25.....	2.4	4.8	9.5	10.0	10.6	8.8	11.0	6.0	9.3	10.6	3.8	.....
26.....	2.4	3.8	9.4	9.8	10.8	8.3	10.8	5.8	9.7	10.7	3.2	.....
27.....	2.3	3.3	9.5	9.5	10.9	7.8	10.5	5.9	10.3	10.7	3.1	.....
28.....	2.3	3.4	9.6	9.2	11.6	7.2	10.0	7.0	10.7	10.7	2.9	.....
29.....	2.4	.....	9.6	9.1	12.4	6.8	9.4	7.6	11.2	10.6	3.4	.....
30.....	2.3	.....	9.7	9.0	12.7	6.4	8.8	7.9	11.8	10.4	2.4	.....
31.....	2.6	.....	9.8	.....	13.6	.....	8.1	7.9	.....	10.2	.....	.....
Means.	3.2	3.4	8.3	10.7	9.4	13.6	8.0	6.7	8.0	11.6	6.1	.....
<b>1904</b>												
1.....	Frozen.	Frozen.	Frozen.	11.7	12.1	8.0	6.4	3.6	2.0	4.1	7.1	3.0
2.....	.....	.....	.....	11.1	11.2	8.0	6.0	3.5	2.0	3.7	6.9	2.7
3.....	.....	.....	.....	10.6	10.8	8.0	5.8	3.1	2.0	3.4	6.9	2.6
4.....	.....	.....	.....	10.1	10.2	8.2	5.5	2.8	2.0	3.3	6.7	2.2
5.....	.....	.....	.....	9.8	9.6	8.3	5.4	3.0	2.1	3.2	6.7	1.9
6.....	.....	.....	.....	9.4	9.2	8.3	5.4	2.6	2.2	3.2	6.6	1.7
7.....	.....	.....	.....	9.0	9.5	8.2	5.5	2.4	2.5	3.2	6.6	1.8
8.....	.....	.....	.....	8.7	9.3	8.3	5.9	2.3	2.6	3.3	6.6	1.7
9.....	.....	.....	6.9	8.6	9.5	8.4	6.0	2.2	2.6	3.5	6.5	1.6
10.....	.....	.....	7.2	9.0	9.5	8.6	5.8	2.2	2.6	3.4	6.4	1.4
11.....	.....	.....	7.1	8.8	9.4	8.7	5.6	2.2	2.5	3.4	6.3	1.3
12.....	.....	.....	5.5	8.8	9.4	9.0	5.6	2.0	2.5	3.3	6.2	1.0
13.....	.....	.....	5.8	9.0	9.3	9.0	5.4	2.0	2.5	3.5	6.0	0.8
14.....	.....	.....	5.8	8.9	9.4	9.0	5.2	1.9	3.0	3.6	5.8	0.1
15.....	.....	.....	5.3	8.8	9.2	8.8	5.2	2.0	3.2	3.7	5.7	-0.1
16.....	.....	.....	5.3	8.7	9.0	8.6	5.2	2.0	3.2	3.8	5.5	-0.2
17.....	.....	.....	5.6	8.6	9.0	8.4	5.2	2.0	3.3	3.8	5.2	-0.2
18.....	.....	.....	5.5	8.6	8.8	8.4	5.1	1.9	3.3	4.0	4.9	-0.6
19.....	.....	.....	5.8	8.5	8.6	8.5	5.0	1.8	4.0	4.2	4.8	-0.6
20.....	.....	.....	6.8	8.5	8.4	8.3	4.9	2.0	4.9	4.6	4.5	-0.4
21.....	.....	.....	7.2	8.5	8.3	8.2	4.9	2.4	4.5	5.0	4.3	-0.4
22.....	.....	.....	7.9	8.6	8.2	8.2	5.6	2.8	4.6	5.3	4.1	0.1
23.....	.....	.....	8.1	8.8	8.1	8.1	5.7	2.8	4.3	5.6	3.9	0.4
24.....	.....	.....	8.7	9.0	8.0	8.0	5.4	2.7	4.2	6.0	3.7	0.4
25.....	.....	.....	9.8	9.9	8.0	8.1	4.9	2.6	3.9	6.3	3.5	0.5
26.....	.....	.....	11.2	12.6	8.0	7.9	4.5	2.5	3.5	6.6	3.5	0.6
27.....	.....	.....	11.7	12.4	8.0	7.7	4.2	2.4	5.0	6.9	3.4	0.8
28.....	.....	.....	12.1	12.4	7.8	7.4	3.9	2.2	5.2	7.1	3.3	1.5
29.....	.....	.....	12.3	12.6	7.8	7.0	3.6	2.0	5.4	7.3	3.0	Frozen.
30.....	.....	.....	12.4	12.6	7.9	6.8	3.3	2.0	4.6	7.3	3.0	5.9
31.....	.....	.....	12.1	.....	8.0	.....	3.5	2.1	.....	7.2	.....	4.0
Means.	.....	.....	8.1	9.8	9.0	8.2	5.1	2.4	3.3	4.6	5.3	1.2

## DESCRIPTION OF RIVER GAGES, ETC.

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## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, WARSAW, ILL.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1904</b>												
1										7.0	9.8	5.6
2										6.5	9.7	5.5
3										6.4	9.5	5.4
4										6.1	9.5	5.3
5										6.1	9.4	5.3
6										6.0	9.4	5.2
7										6.0	9.3	5.0
8										5.9	9.3	4.9
9										5.9	9.3	4.8
10										6.0	9.1	4.8
11										6.1	9.0	4.7
12										6.2	8.9	4.6
13										6.4	8.8	4.5
14										6.5	8.6	4.3
15									6.2	6.5	8.4	4.1
16									6.1	6.6	8.2	3.5
17									6.1	6.7	7.9	3.1
18									6.1	6.9	7.7	2.6
19									7.0	7.2	7.5	2.3
20									7.7	7.5	7.2	3.2
21									7.4	7.7	7.1	3.3
22									7.4	8.2	6.9	4.0
23									7.1	8.5	6.7	3.6
24									7.3	8.7	6.5	3.2
25									6.7	9.3	6.3	3.3
26									6.4	9.5	6.3	3.5
27									8.1	9.8	6.2	3.5
28									8.5	9.9	6.0	Frozen.
29									8.6	10.0	5.8	-----
30									7.7	10.0	5.7	6.5
31										9.8	-----	6.8
Means									7.2	7.4	8.0	4.4

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, HANNIBAL, MO.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1	Frozen.	0.2	5.5	6.3	8.0	4.6	2.3	5.5	5.1	7.8	8.1	5.7
2	Frozen.		7.8	6.3	8.2	4.5	2.5	5.2	5.1	7.8	7.9	5.5
3			8.2	7.6	8.3	4.2	2.5	5.2	4.9	7.7	7.8	5.2
4			8.5	8.6	8.7	3.9	2.3	4.7	4.8	7.5	8.2	5.0
5			9.1	9.5	8.8	3.7	2.1	4.4	4.7	7.4	8.5	4.8
6			9.0	10.0	9.0	3.5	2.1	4.2	4.6	7.3	8.7	4.7
7			9.0	10.2	9.4	3.4	2.1	3.9	4.6	7.4	8.7	4.6
8			8.8	10.0	9.4	3.2	2.1	3.6	4.6	7.8	8.5	4.5
9	2.4	4.2	7.3	9.8	9.5	3.2	2.1	3.4	4.6	7.6	8.4	4.4
10	2.4	3.9	7.3	9.5	9.3	2.9	2.0	3.2	4.6	7.5	8.4	4.2
11	1.9	3.8	7.0	9.0	9.1	2.8	1.8	2.9	4.6	7.5	8.5	4.0
12	1.8	3.8	9.3	8.7	8.2	2.8	1.8	2.8	4.2	7.6	8.7	3.9
13	1.7	5.0	11.8	8.2	7.5	2.7	1.8	2.7	4.2	7.6	8.8	3.5
14	1.6	4.9	12.4	7.8	6.8	2.5	2.1	2.7	4.3	7.6	9.0	3.3
15	1.6	4.9	13.0	7.5	6.2	2.7	2.1	2.6	4.2	7.7	9.0	3.0
16	2.1	4.9	12.4	7.2	5.7	2.8	2.1	2.8	4.2	7.7	9.3	2.5
17	2.2	4.9	11.3	7.0	5.6	2.9	2.3	3.5	4.2	8.0	9.5	2.3
18	3.1	4.9	10.1	7.6	5.6	3.0	2.8	4.6	4.2	8.3	9.5	2.1
19	3.4	4.8	9.5	8.9	5.6	3.1	3.4	5.5	4.2	8.7	9.6	1.8
20	3.6	4.2	9.2	9.3	6.1	3.4	4.1	6.0	4.4	9.2	9.8	1.8
21	2.7	4.1	9.7	9.4	6.2	3.2	4.3	6.1	4.9	9.8	9.6	1.8
22	2.6	4.7	9.5	9.8	6.2	3.2	4.6	5.9	4.8	10.2	9.4	1.8
23	3.0	4.5	8.5	9.8	5.7	3.4	4.6	5.5	4.8	10.5	9.3	1.7
24	3.2	4.5	8.2	9.8	5.3	3.5	4.8	5.2	5.1	10.8	8.9	1.7
25	3.2	4.5	8.1	9.5	5.1	3.2	5.2	5.2	5.4	10.8	8.3	2.1
26	3.2	4.5	7.8	9.5	4.8	3.2	5.5	4.7	6.0	10.9	7.6	2.1
27	3.0	4.8	7.2	8.8	4.6	3.0	5.6	4.7	6.3	10.8	7.4	1.9
28	3.0	5.0	7.0	8.5	4.4	2.8	5.7	4.6	6.8	10.4	6.7	1.7
29	2.0		6.8	8.2	4.4	2.6	5.8	4.6	7.2	10.1	6.3	1.7
30	0.5		6.4	8.1	4.3	2.4	5.8	4.8	7.6	9.5	5.9	1.5
31	-0.3		6.4	-----	4.3	-----	5.7	5.1	-----	8.8	-----	1.5
Means	2.3	4.3	8.8	8.7	6.8	3.2	3.4	4.4	5.0	8.3	8.5	3.1

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, HANNIBAL, MO.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	1.3	1.6	1.5	12.1	9.8	5.1	3.9	4.5	1.6	1.2	2.5	1.8
2.....	-0.2	1.7	1.2	12.1	9.7	5.0	3.9	4.4	1.5	1.2	2.4	1.8
3.....	-0.4	1.7	1.5	12.0	9.6	4.9	3.8	4.4	1.5	1.2	2.3	1.8
4.....	-0.4	1.8	2.1	12.2	9.5	4.9	3.8	4.2	1.5	1.2	2.3	1.7
5.....	0.0	0.8	2.8	12.3	9.3	4.8	3.8	4.0	1.5	1.1	2.2	1.7
6.....	0.7	0.0	3.8	12.6	9.2	5.2	3.7	3.7	1.2	1.1	2.2	1.6
7.....	1.0	-0.6	4.8	12.8	9.0	5.7	3.7	3.4	1.2	1.1	2.0	1.6
8.....	1.9	-0.4	5.8	12.9	8.7	5.0	3.8	3.3	1.2	1.1	1.9	1.6
9.....	2.3	0.9	5.8	12.8	8.5	4.8	3.9	3.2	1.2	1.2	1.9	1.6
10.....	2.7	1.2	5.3	12.7	8.2	5.0	4.1	3.1	1.1	1.3	1.9	1.3
11.....	2.1	1.2	5.3	12.4	8.0	5.1	4.2	3.0	1.1	1.4	1.9	1.3
12.....	2.9	1.3	7.3	11.9	7.8	4.8	4.5	3.0	1.2	1.5	1.9	1.1
13.....	3.2	1.8	8.4	11.3	7.6	4.5	4.7	2.9	1.2	1.5	1.9	1.1
14.....	3.2	1.8	8.6	10.9	7.4	4.2	4.8	2.9	1.2	1.9	2.0	1.1
15.....	2.9	1.8	8.8	10.3	7.2	4.1	4.9	2.8	1.1	2.2	2.0	-0.2
16.....	3.4	1.8	9.2	10.3	7.2	4.0	4.9	2.8	1.1	2.3	2.0	Frozen.
17.....	3.2	1.8	9.5	10.0	6.9	4.0	5.1	2.7	1.3	2.7	2.1	.....
18.....	2.9	1.8	9.4	10.1	6.8	3.9	5.2	2.6	1.4	2.8	2.2	.....
19.....	2.2	1.9	9.3	10.1	6.5	3.8	5.2	2.5	1.5	2.8	2.2	.....
20.....	2.3	1.9	9.3	10.1	6.3	3.7	5.3	2.4	1.6	2.7	2.2	.....
21.....	2.8	1.6	11.2	10.2	6.2	3.6	5.4	2.3	1.7	2.7	2.1	.....
22.....	2.0	1.3	11.7	10.3	6.0	3.6	5.3	2.2	1.7	2.8	2.1	.....
23.....	2.8	1.3	12.1	10.4	5.9	3.7	5.3	2.1	1.7	2.7	2.2	.....
24.....	2.7	1.3	12.3	10.5	5.8	3.8	5.3	2.1	1.7	2.7	2.2	.....
25.....	2.6	1.2	12.6	10.5	5.8	3.8	5.1	2.1	1.7	2.7	2.2	.....
26.....	2.0	1.3	12.7	10.4	5.6	3.8	5.0	2.0	1.4	2.7	2.0	.....
27.....	2.0	1.8	12.5	10.3	5.4	3.8	4.8	2.0	1.3	2.7	2.0	.....
28.....	2.4	1.4	12.5	10.3	5.3	3.8	4.8	1.9	1.3	2.7	2.0	.....
29.....	2.3	.....	12.4	10.2	5.2	3.8	4.7	1.8	1.2	2.7	2.0	.....
30.....	2.2	.....	12.3	10.0	5.2	3.9	4.8	1.8	1.2	2.7	2.0	.....
31.....	1.8	.....	12.2	.....	5.1	.....	4.7	1.8	.....	2.5	.....	.....
Means.	2.0	1.3	8.2	11.2	7.2	4.3	4.6	2.8	1.4	2.0	2.1	1.4
<b>1902</b>												
1.....	Frozen.	Frozen.	Frozen.	4.1	2.2	11.2	8.8	9.3	6.9	6.0	4.7	7.9
2.....	.....	.....	.....	3.9	3.1	11.2	8.3	9.1	6.9	7.2	4.3	7.9
3.....	.....	.....	.....	3.8	2.2	11.4	7.9	8.2	6.3	8.0	4.3	7.8
4.....	.....	.....	.....	3.8	2.1	11.2	8.1	7.7	6.1	8.2	4.2	7.8
5.....	.....	.....	.....	3.8	2.1	10.8	7.9	8.1	6.1	8.2	4.2	7.6
6.....	.....	.....	.....	3.4	2.1	10.2	7.8	9.1	5.7	8.8	5.0	7.6
7.....	.....	.....	5.6	3.4	2.8	10.2	7.9	9.1	5.2	9.4	5.5	7.4
8.....	.....	.....	5.2	3.2	3.8	10.3	8.0	8.7	5.1	9.0	6.1	6.6
9.....	.....	.....	5.1	3.2	4.6	10.7	8.1	8.4	5.3	8.4	5.8	5.8
10.....	.....	.....	5.1	3.2	5.2	10.4	8.5	7.4	5.4	7.8	5.7	5.2
11.....	1.2	.....	4.9	3.2	5.6	10.2	9.8	7.1	5.6	7.2	5.1	4.8
12.....	1.2	.....	4.8	3.1	5.8	10.3	11.3	7.8	5.6	6.4	5.0	4.5
13.....	Frozen.	.....	5.6	3.0	6.0	10.8	11.9	7.2	5.3	5.9	4.8	4.2
14.....	.....	.....	5.5	2.9	6.5	10.9	12.2	6.5	5.1	5.8	5.0	3.8
15.....	.....	.....	5.5	2.8	6.8	10.7	12.6	6.2	4.8	6.2	4.9	3.8
16.....	.....	.....	5.7	2.8	6.9	10.5	13.6	6.8	4.8	6.2	4.8	2.9
17.....	.....	.....	5.8	2.6	7.0	10.3	14.2	6.8	4.1	6.2	5.7	2.9
18.....	.....	.....	5.8	2.5	7.2	10.2	14.4	7.3	3.8	6.2	6.2	2.9
19.....	.....	.....	5.5	2.2	7.2	10.2	14.4	9.0	3.7	7.2	6.5	2.9
20.....	.....	.....	5.4	2.2	7.3	10.2	15.0	10.8	3.7	8.2	6.8	3.0
21.....	.....	.....	4.8	2.2	7.4	10.1	15.7	11.5	3.3	9.7	6.7	4.4
22.....	.....	.....	4.8	2.0	7.9	9.7	16.4	11.7	3.3	10.0	6.7	6.5
23.....	.....	.....	4.2	1.9	8.5	9.2	16.6	11.7	3.3	10.2	6.8	8.0
24.....	.....	.....	3.9	1.9	9.0	8.9	16.2	11.2	3.2	10.2	7.0	8.0
25.....	.....	.....	3.7	2.0	9.4	8.6	15.7	10.6	3.2	9.0	7.2	7.5
26.....	.....	.....	3.4	2.0	9.7	8.2	14.4	10.2	4.3	7.2	7.4	7.5
27.....	.....	.....	3.2	2.0	10.0	8.0	12.7	9.9	5.2	6.2	7.6	6.5
28.....	.....	.....	3.2	2.4	10.4	8.2	11.6	9.4	6.2	5.8	7.8	6.5
29.....	.....	.....	3.6	2.4	10.7	9.2	10.8	8.8	6.8	5.0	7.9	5.5
30.....	.....	.....	4.0	2.2	10.8	9.5	10.1	8.1	6.5	5.2	7.9	4.0
31.....	.....	.....	4.0	.....	11.1	.....	9.6	7.5	.....	4.9	.....	4.0
Means.	.....	.....	4.7	2.8	6.5	10.0	11.6	8.7	5.0	7.4	5.9	5.4



## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, HANNIBAL, MO.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	4.0	4.6	10.2	10.9	10.0	15.7	8.0	9.6	9.8	12.8	11.7	3.8
2.....	4.0	5.0	10.2	11.0	9.9	17.6	7.5	9.2	9.8	13.2	11.3	3.7
3.....	4.0	4.7	8.9	11.2	9.8	20.2	7.0	8.8	9.4	13.7	11.1	3.2
4.....	4.5	4.6	10.2	12.0	9.6	21.8	6.6	8.2	9.0	14.1	10.9	3.0
5.....	4.5	4.6	8.0	12.3	9.4	21.4	6.4	7.8	8.4	14.3	10.9	3.0
6.....	4.6	4.6	7.0	12.2	9.2	21.5	6.4	7.8	8.2	14.6	10.4	2.8
7.....	4.6	4.6	8.5	12.2	9.2	22.0	6.7	7.9	8.0	14.8	10.1	2.4
8.....	4.6	5.0	10.0	12.2	9.1	22.5	6.8	8.1	7.7	15.7	9.8	2.3
9.....	4.6	5.3	11.5	12.2	9.1	22.4	6.7	8.1	7.4	15.6	9.5	2.6
10.....	4.6	5.0	11.3	12.2	8.9	21.9	6.4	8.9	7.7	15.8	9.2	2.8
11.....	4.6	5.0	11.0	13.2	8.8	20.9	6.3	8.9	8.7	15.6	8.8	3.2
12.....	4.0	4.5	11.2	14.2	8.8	20.3	6.3	8.5	9.4	15.2	8.6	2.2
13.....	4.0	4.2	11.0	13.9	8.8	19.4	7.0	8.2	9.6	14.7	8.3	1.0
14.....	4.0	4.3	10.8	13.6	9.0	18.6	8.2	8.2	9.2	14.1	8.2	0.5
15.....	4.0	4.4	10.6	13.4	9.1	17.8	9.3	7.9	9.0	13.6	8.0	0.5
16.....	5.0	4.4	10.2	13.2	9.4	17.1	10.3	7.8	9.2	13.0	8.0	0.8
17.....	5.0	7.5	10.0	13.0	9.9	16.2	10.9	7.4	9.8	12.4	7.4	1.5
18.....	5.0	8.9	10.0	12.8	10.5	15.5	11.2	7.4	10.0	12.1	7.2	1.5
19.....	6.0	Frozen.	10.1	12.8	10.8	14.8	11.4	7.4	10.0	11.9	7.0	1.5
20.....	6.0	.....	10.1	12.8	10.9	14.1	11.5	7.5	9.8	11.7	6.7	1.8
21.....	6.0	.....	10.1	12.5	11.0	13.2	11.6	7.8	9.7	11.6	6.4	2.2
22.....	5.6	.....	10.5	12.5	11.1	12.7	11.6	7.8	9.7	11.7	6.1	2.9
23.....	5.5	.....	10.5	12.3	11.1	12.2	11.8	7.8	9.8	11.7	5.9	3.4
24.....	5.3	.....	10.5	11.9	11.3	11.8	12.0	7.7	10.0	11.8	5.7	4.0
25.....	5.3	.....	10.5	11.8	11.7	11.2	12.1	7.5	10.3	11.8	5.5	4.0
26.....	5.3	.....	10.6	11.3	11.9	10.7	12.2	7.5	10.7	11.8	5.5	4.2
27.....	5.5	.....	10.7	11.0	12.1	10.1	12.0	7.3	11.1	11.7	5.2	4.2
28.....	5.8	8.1	10.7	10.8	12.2	9.5	11.8	7.9	11.6	12.0	4.8	4.3
29.....	5.9	.....	10.7	10.5	12.8	9.0	11.4	8.7	12.0	12.0	4.8	4.2
30.....	5.5	.....	10.7	10.2	13.5	8.4	10.9	9.2	12.4	11.9	4.4	4.3
31.....	5.3	.....	10.7	.....	14.3	.....	10.2	9.8	.....	11.8	.....	4.3
<b>Means.</b>	4.9	5.2	10.2	12.2	10.4	16.4	9.3	7.8	9.6	13.2	7.9	2.8
<b>1904</b>												
1.....	4.2	8.0	4.8	13.9	15.3	9.4	8.0	4.8	3.2	6.3	8.2	3.9
2.....	4.2	7.7	4.8	13.5	14.5	9.4	7.8	4.8	3.1	5.6	8.0	3.8
3.....	Frozen.	Frozen.	4.8	13.0	13.5	9.4	7.3	4.6	2.9	5.0	7.8	3.7
4.....	.....	.....	5.5	12.4	12.7	10.0	7.0	4.2	3.0	4.7	7.8	3.6
5.....	.....	.....	5.7	11.8	12.9	11.0	6.8	4.4	3.0	4.5	7.7	3.3
6.....	.....	.....	6.1	10.5	11.3	10.0	6.7	4.2	3.1	4.3	7.7	2.8
7.....	.....	7.5	6.8	9.8	11.2	9.7	6.8	3.8	3.2	4.2	7.6	2.7
8.....	.....	8.1	6.3	10.2	11.4	9.8	7.2	3.6	3.2	4.2	7.6	2.8
9.....	.....	8.1	6.0	10.5	11.4	9.7	8.9	3.4	3.6	4.3	7.4	2.8
10.....	.....	8.5	6.8	10.6	11.3	9.8	7.9	3.2	3.2	4.4	7.4	2.7
11.....	4.7	8.5	7.5	11.2	11.2	9.9	7.2	3.2	3.6	4.4	7.3	2.5
12.....	4.7	9.2	6.7	11.0	11.0	10.0	7.7	3.2	3.4	4.3	7.2	2.2
13.....	4.5	9.3	6.0	10.8	10.9	10.1	6.9	3.1	3.4	4.3	7.1	2.2
14.....	4.5	9.3	5.8	10.8	10.9	10.2	6.9	3.2	3.7	4.4	6.9	Frozen.
15.....	4.5	8.8	5.8	10.6	10.8	10.2	6.5	3.2	3.9	4.4	6.8	.....
16.....	4.5	8.4	5.7	10.3	10.7	10.2	6.5	3.2	4.1	4.6	6.7	.....
17.....	4.5	7.5	6.0	10.2	10.5	10.0	6.4	3.2	4.2	4.7	6.5	.....
18.....	4.5	Frozen.	6.1	10.2	10.3	9.8	6.3	3.2	4.3	4.8	6.2	.....
19.....	4.5	.....	6.4	10.1	10.3	10.0	6.2	3.2	4.8	4.9	6.0	.....
20.....	4.5	.....	6.8	10.1	9.9	9.8	6.1	3.5	5.7	5.1	6.0	.....
21.....	6.5	.....	7.1	10.0	9.7	9.8	6.0	3.5	5.9	5.1	5.4	.....
22.....	9.5	.....	8.5	10.0	9.5	9.5	5.9	3.8	5.7	5.7	5.2	.....
23.....	11.1	.....	9.7	10.1	9.4	9.3	7.0	3.9	5.6	6.2	5.2	.....
24.....	11.0	.....	10.0	10.8	9.3	9.2	7.2	3.9	5.2	6.5	4.7	3.4
25.....	11.1	.....	10.8	11.8	9.2	9.2	6.8	3.8	7.2	6.8	4.5	Frozen.
26.....	12.2	.....	12.0	14.0	9.2	9.2	6.2	3.7	6.8	7.2	4.4	.....
27.....	11.2	.....	13.0	15.8	9.2	9.2	6.2	3.6	5.9	7.6	4.3	.....
28.....	11.0	.....	13.3	16.4	9.2	8.8	5.4	3.4	7.2	7.9	4.2	.....
29.....	10.2	4.8	13.5	16.4	9.1	8.5	5.1	3.2	7.8	8.0	4.0	.....
30.....	9.3	.....	13.8	16.0	9.3	8.5	4.8	3.2	7.2	8.2	4.0	.....
31.....	8.3	.....	14.1	.....	9.3	.....	4.5	3.1	.....	8.2	.....	.....
<b>Means.</b>	7.2	8.1	7.9	11.8	10.8	9.7	6.7	3.6	4.6	5.5	6.3	.....

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, GRAFTON, ILL.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	1.1	2.7	6.1	11.5	10.9	7.0	4.7	7.4	6.6	8.5	10.9	8.0
2.....	1.7	1.9	5.6	11.3	10.8	6.9	4.5	7.1	6.8	8.7	10.1	7.8
3.....	2.1	1.0	5.0	11.3	10.8	6.9	4.4	6.9	7.0	8.8	9.5	7.6
4.....	2.6	1.3	4.8	11.6	10.7	6.7	4.4	6.6	7.1	8.9	9.3	7.5
5.....	3.2	1.6	5.1	12.1	10.9	6.5	4.4	6.4	6.9	8.8	9.1	7.3
6.....	4.0	2.3	7.0	12.8	11.3	6.2	4.4	6.2	6.7	8.7	9.0	7.1
7.....	4.2	3.3	9.3	13.3	11.8	6.0	4.3	6.0	6.6	8.7	8.8	7.0
8.....	4.0	5.2	10.3	13.6	12.3	5.9	4.2	5.7	6.5	8.7	8.8	6.9
9.....	3.7	7.6	10.6	13.6	12.3	5.7	4.2	5.4	6.4	8.8	8.9	6.8
10.....	3.8	7.3	11.4	13.5	12.1	5.4	4.1	5.2	6.3	8.9	9.0	6.6
11.....	3.9	6.9	12.2	13.3	11.8	5.2	4.1	5.0	6.2	8.9	9.1	6.4
12.....	3.8	6.7	13.3	13.0	11.4	5.2	4.1	4.8	6.1	8.8	9.2	6.4
13.....	3.6	6.7	14.8	12.6	10.8	5.2	4.0	4.6	6.0	8.8	9.5	6.2
14.....	3.4	6.6	16.1	12.3	10.2	5.2	3.9	4.4	5.9	8.8	9.8	6.0
15.....	3.2	6.7	16.8	12.0	9.5	5.1	3.9	4.3	5.9	8.8	10.0	5.8
16.....	3.3	6.8	17.3	11.7	8.9	5.0	3.9	4.2	5.8	8.8	10.2	5.6
17.....	3.5	6.8	17.2	11.4	8.4	5.0	4.2	4.5	5.7	8.9	10.4	5.3
18.....	3.7	6.8	16.7	11.0	8.3	5.1	4.3	4.9	5.6	9.0	10.6	5.0
19.....	4.7	6.8	15.9	11.0	8.2	5.2	4.4	5.4	5.6	9.2	10.7	4.8
20.....	5.8	6.9	15.3	11.5	8.3	5.3	4.7	6.5	5.7	9.5	10.8	4.6
21.....	5.9	8.3	14.9	12.3	8.5	5.5	5.4	7.2	5.8	9.8	10.9	4.4
22.....	5.5	8.5	14.8	12.4	8.7	5.7	5.8	7.8	5.9	10.4	10.9	4.2
23.....	5.1	8.3	14.6	12.6	8.7	5.8	6.1	7.9	6.2	10.8	10.8	4.1
24.....	5.1	8.0	14.4	12.6	8.4	5.9	6.2	7.7	6.4	11.1	10.5	4.0
25.....	5.3	7.7	13.9	12.7	8.0	6.3	6.4	7.4	6.5	11.4	10.2	4.0
26.....	5.2	7.4	13.5	12.7	7.7	6.1	6.6	7.1	6.7	11.6	9.8	3.9
27.....	5.0	6.9	13.2	12.4	7.4	5.8	7.0	7.0	7.0	11.7	9.4	3.9
28.....	4.8	6.7	12.9	12.1	7.2	5.5	7.2	6.8	7.6	11.6	9.0	3.8
29.....	4.5	-----	12.6	11.7	6.9	5.1	7.3	6.5	8.0	11.5	8.6	3.8
30.....	3.7	-----	12.2	11.3	6.8	4.9	7.4	6.4	8.2	11.5	8.3	3.7
31.....	3.2	-----	11.8	-----	6.9	-----	7.4	6.4	-----	11.2	-----	3.7
<b>Means.</b>	<b>4.0</b>	<b>5.8</b>	<b>12.2</b>	<b>12.2</b>	<b>9.5</b>	<b>5.7</b>	<b>5.1</b>	<b>6.1</b>	<b>6.5</b>	<b>9.7</b>	<b>9.7</b>	<b>5.6</b>
<b>1901</b>												
1.....	3.5	4.4	4.1	15.5	12.5	7.0	5.7	6.0	3.3	2.8	3.9	3.5
2.....	3.2	4.2	4.0	15.5	12.3	6.9	5.7	5.9	3.2	2.8	3.9	3.5
3.....	2.9	4.1	3.9	15.5	12.1	6.8	5.7	5.9	3.1	2.7	3.8	3.4
4.....	2.7	4.0	3.9	15.5	12.0	6.7	5.7	5.8	3.0	2.7	3.7	3.4
5.....	2.4	3.8	4.3	15.6	11.8	6.6	5.7	5.7	2.9	2.6	3.7	3.3
6.....	2.2	3.5	4.6	15.9	11.6	6.6	5.6	5.5	2.8	2.6	3.6	3.2
7.....	2.4	3.2	4.9	16.1	11.4	6.7	5.6	5.3	2.7	2.6	3.5	3.1
8.....	2.5	2.9	5.9	16.3	11.2	6.8	5.5	5.1	2.6	2.6	3.5	3.2
9.....	3.1	2.7	7.0	16.5	11.0	6.9	5.5	4.9	2.6	2.6	3.4	3.3
10.....	3.8	3.0	8.0	16.6	10.7	7.0	5.6	4.7	2.6	2.6	3.4	3.2
11.....	4.7	3.2	9.7	16.6	10.5	6.9	5.7	4.6	2.6	2.7	3.3	3.1
12.....	4.6	3.3	11.0	16.5	10.2	6.8	5.8	4.5	2.6	2.9	3.4	3.0
13.....	4.5	3.4	11.5	16.3	10.0	6.7	5.9	4.4	2.6	3.0	3.4	3.0
14.....	4.8	3.6	11.8	16.0	9.7	6.5	6.0	4.3	2.6	3.0	3.4	2.7
15.....	4.8	3.7	11.6	15.7	9.6	6.3	6.1	4.3	2.6	3.2	3.4	2.4
16.....	4.8	3.9	11.5	15.2	9.5	6.1	6.4	4.2	2.6	3.4	3.5	2.0
17.....	5.0	4.0	11.8	15.2	9.4	5.9	6.5	4.2	2.7	3.6	3.5	1.4
18.....	5.2	4.1	11.9	15.2	9.2	5.7	6.6	4.2	2.7	3.8	3.5	1.4
19.....	5.2	4.3	12.0	15.0	9.0	5.6	6.6	4.1	2.8	3.9	3.6	1.5
20.....	5.2	4.0	12.1	14.6	8.8	5.6	6.7	4.0	2.8	4.0	3.6	1.6
21.....	5.3	3.7	12.3	14.3	8.6	5.3	6.7	3.9	2.9	4.1	3.6	1.8
22.....	5.3	3.3	13.5	14.0	8.3	5.4	6.7	3.8	3.0	4.1	3.6	2.1
23.....	5.3	3.6	14.5	13.8	8.0	5.5	6.8	3.8	3.0	4.1	3.6	2.4
24.....	5.2	3.7	14.9	13.6	7.9	5.6	6.8	3.8	3.1	4.1	3.6	2.4
25.....	5.1	3.9	15.1	13.5	7.8	5.7	6.6	3.7	3.1	4.1	3.5	2.4
26.....	5.0	4.1	15.4	13.4	7.6	5.7	6.4	3.7	3.0	4.1	3.5	2.4
27.....	4.8	4.2	15.6	13.3	7.5	5.8	6.2	3.6	2.9	4.1	3.5	2.4
28.....	4.6	4.2	15.7	13.2	7.4	5.8	6.1	3.5	2.8	4.1	3.5	2.5
29.....	4.7	-----	15.6	13.0	7.2	5.8	6.1	3.4	2.8	4.1	3.5	2.5
30.....	4.9	-----	15.4	12.7	7.1	5.7	6.0	3.4	2.8	4.1	3.5	2.6
31.....	4.7	-----	15.4	-----	7.0	-----	6.0	3.4	-----	4.0	-----	2.6
<b>Means.</b>	<b>4.3</b>	<b>3.7</b>	<b>10.6</b>	<b>15.0</b>	<b>9.6</b>	<b>6.2</b>	<b>6.1</b>	<b>4.4</b>	<b>2.8</b>	<b>3.4</b>	<b>3.5</b>	<b>2.6</b>

## DESCRIPTION OF RIVER GAGES, ETC.

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## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, GRAFTON, ILL.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	2.5	1.4	2.7	6.8	5.6	12.5	14.9	16.3	12.1	9.0	8.2	10.4
2.....	2.6	1.6	2.8	6.9	5.3	12.8	15.2	15.6	11.5	8.7	8.0	10.4
3.....	2.6	1.8	2.7	6.9	5.5	13.2	14.9	14.9	10.9	9.0	7.8	10.3
4.....	2.9	2.1	2.7	6.8	5.8	13.6	14.5	14.5	10.5	10.0	7.6	10.3
5.....	3.2	2.4	2.9	6.7	5.6	13.6	14.0	14.1	10.3	10.7	7.7	10.3
6.....	3.6	2.6	3.5	6.6	5.3	13.1	13.5	13.9	10.1	10.9	8.0	10.2
7.....	3.5	2.7	4.5	6.5	5.2	12.6	13.0	14.1	9.8	11.2	8.3	10.1
8.....	3.4	2.9	6.0	6.4	5.3	12.7	12.7	14.2	9.2	11.6	8.6	9.8
9.....	3.2	3.2	7.2	6.3	5.4	12.3	12.8	13.9	8.7	11.9	8.9	9.1
10.....	3.0	3.3	7.3	6.3	5.8	12.4	13.0	13.4	8.5	11.7	8.8	8.6
11.....	2.8	3.4	7.3	6.3	6.9	12.5	13.3	12.9	8.5	11.4	8.6	8.1
12.....	2.6	3.4	7.5	6.2	7.0	12.5	13.6	12.2	8.5	11.1	8.3	7.8
13.....	2.3	3.3	7.8	6.2	7.7	12.5	14.8	12.1	8.4	10.8	8.2	8.1
14.....	2.1	3.3	8.0	6.1	8.0	12.8	15.8	12.0	8.2	10.5	8.1	8.0
15.....	2.3	3.3	8.3	6.0	8.3	13.3	16.4	11.4	7.9	10.1	8.0	7.2
16.....	2.6	3.3	8.2	5.8	8.5	13.5	17.0	10.9	7.6	9.8	8.0	6.7
17.....	2.7	3.3	8.2	5.8	8.7	13.4	17.5	10.8	7.3	9.5	8.2	6.3
18.....	2.5	3.3	8.3	5.7	8.8	13.3	18.0	10.9	7.2	9.4	8.6	6.3
19.....	2.4	3.2	8.3	5.5	9.0	13.2	18.6	11.5	7.0	9.3	9.0	6.4
20.....	2.4	3.1	8.0	5.4	9.1	13.1	19.0	12.0	6.7	9.6	9.3	6.6
21.....	2.5	3.1	7.8	5.2	9.1	13.0	19.2	13.3	6.4	9.9	9.5	7.0
22.....	2.4	3.0	7.6	5.0	9.2	12.9	19.3	14.2	6.2	10.4	9.5	8.3
23.....	2.2	2.9	7.4	4.9	9.5	12.8	19.6	14.6	6.1	11.0	9.5	9.3
24.....	2.2	2.9	7.2	4.8	10.0	12.5	20.0	14.7	5.9	12.0	9.6	10.4
25.....	2.2	2.9	7.0	4.7	10.7	12.3	20.3	14.7	6.3	12.2	9.7	10.6
26.....	2.0	2.7	6.8	4.6	11.3	12.0	20.4	14.4	6.5	12.4	9.9	10.3
27.....	1.5	2.5	6.7	4.6	11.4	11.8	20.3	14.2	6.8	12.1	10.1	9.5
28.....	1.2	2.6	6.6	4.7	11.5	12.3	19.8	14.0	7.5	11.2	10.4	8.9
29.....	0.8	.....	6.5	5.0	11.9	13.8	18.9	13.7	8.1	10.0	10.6	8.4
30.....	1.0	.....	6.6	5.5	12.2	14.3	17.9	13.3	8.8	9.2	10.4	7.7
31.....	1.3	.....	6.7	.....	12.3	.....	17.1	12.7	.....	8.6	.....	7.0
<b>Means.</b>	<b>2.4</b>	<b>2.8</b>	<b>6.4</b>	<b>5.8</b>	<b>8.3</b>	<b>12.9</b>	<b>16.6</b>	<b>13.4</b>	<b>8.2</b>	<b>10.5</b>	<b>8.8</b>	<b>8.7</b>
<b>1903</b>												
1.....	7.0	7.6	10.2	15.5	15.2	17.4	12.0	11.9	11.3	13.3	13.0	6.0
2.....	7.0	7.3	10.4	15.3	14.8	18.9	11.4	11.3	11.4	13.6	12.8	5.8
3.....	7.2	8.1	10.7	15.3	14.6	20.1	10.7	10.9	11.4	13.9	12.6	5.5
4.....	7.5	9.2	11.4	15.7	14.3	21.3	10.0	10.5	11.2	14.3	12.4	5.2
5.....	7.6	9.8	11.7	16.3	14.0	22.8	9.5	10.0	10.8	14.7	12.2	4.9
6.....	7.4	9.5	11.7	16.7	13.7	24.1	9.1	9.6	10.3	15.0	11.9	4.6
7.....	7.3	8.5	11.8	16.8	13.4	25.8	8.8	9.4	9.9	15.4	11.7	4.3
8.....	7.2	7.9	13.9	16.7	13.2	27.3	8.9	9.5	9.5	15.9	11.4	4.2
9.....	7.1	7.8	16.2	16.5	13.0	28.1	9.0	9.5	9.1	16.1	11.0	4.0
10.....	7.0	7.5	17.2	16.2	12.8	28.5	8.9	9.7	9.5	16.4	10.8	3.7
11.....	6.9	7.8	17.5	16.3	12.6	28.7	8.7	10.1	10.1	16.7	10.5	3.7
12.....	6.7	8.2	17.2	17.3	12.4	28.5	8.6	10.3	11.0	16.9	10.1	3.6
13.....	5.7	8.8	16.9	18.1	12.3	28.1	8.6	10.0	11.8	16.8	9.9	3.3
14.....	5.4	8.9	16.7	18.6	12.1	27.4	8.7	9.8	12.3	16.6	9.6	3.0
15.....	5.3	8.6	16.7	18.8	12.1	26.5	9.4	9.6	12.2	16.3	9.4	2.6
16.....	5.4	8.3	16.5	18.6	12.0	25.5	10.3	9.7	12.3	15.8	9.3	2.5
17.....	6.0	8.0	16.2	18.4	12.1	24.6	11.2	9.4	11.9	15.3	9.2	2.6
18.....	6.4	7.2	16.0	18.1	12.5	23.7	12.0	9.1	11.9	14.6	9.1	2.8
19.....	6.9	7.1	16.0	17.8	12.9	22.7	12.5	8.9	12.0	14.1	8.5	2.9
20.....	7.1	6.9	16.4	17.8	13.2	21.9	12.6	8.9	12.0	13.7	8.2	3.1
21.....	6.7	7.2	17.0	17.9	13.4	20.6	12.7	8.9	11.9	13.2	8.0	3.6
22.....	6.6	7.5	17.2	18.1	13.4	19.7	12.7	9.0	11.6	13.1	7.8	4.0
23.....	6.5	7.7	17.0	17.9	13.4	18.8	12.8	9.1	11.4	13.0	7.6	4.5
24.....	6.3	7.8	16.7	17.6	13.4	17.9	12.9	9.1	11.3	12.9	7.4	4.8
25.....	6.0	7.8	16.5	17.2	13.7	17.1	13.0	8.9	11.4	12.9	7.3	5.1
26.....	6.1	7.8	16.3	16.8	14.1	16.3	13.2	8.9	11.6	13.0	7.1	5.0
27.....	6.3	8.0	16.2	16.4	14.6	15.3	13.4	8.8	12.0	13.1	6.9	4.9
28.....	6.8	10.2	16.2	16.1	14.9	14.4	13.3	8.9	12.3	13.1	6.5	4.8
29.....	7.3	.....	15.9	15.8	15.0	13.5	13.1	9.9	12.6	13.1	6.2	5.2
30.....	7.6	.....	15.7	15.5	15.2	12.6	12.9	11.6	12.9	13.1	6.1	5.4
31.....	7.9	.....	15.6	.....	16.0	.....	12.5	11.3	.....	13.0	.....	5.3
<b>Means.</b>	<b>6.7</b>	<b>8.1</b>	<b>15.2</b>	<b>17.0</b>	<b>13.6</b>	<b>21.9</b>	<b>11.1</b>	<b>9.8</b>	<b>11.4</b>	<b>14.5</b>	<b>9.5</b>	<b>4.2</b>

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, GRAFTON, ILL.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	5.2	6.9	6.6	19.5	23.9	13.1	11.5	7.8	5.8	10.5	9.6	6.2
2.....	5.2	6.7	6.6	19.9	23.5	13.3	11.2	7.2	5.8	9.6	9.6	6.1
3.....	5.0	6.7	6.8	19.8	22.9	13.2	10.6	7.3	5.8	9.0	9.6	6.0
4.....	4.8	6.6	6.9	19.6	22.0	12.9	10.2	7.3	5.7	8.4	9.5	5.9
5.....	4.9	6.6	7.1	19.2	21.1	14.6	10.0	7.3	5.5	8.2	9.4	5.8
6.....	5.0	6.5	7.6	18.8	20.0	16.2	9.8	7.1	5.5	8.0	9.2	5.6
7.....	5.0	6.7	7.9	18.3	19.0	16.8	9.4	7.1	5.5	7.8	9.1	5.2
8.....	5.0	7.3	8.3	18.0	18.2	16.6	9.6	6.8	5.6	7.6	8.9	5.0
9.....	5.0	7.7	9.0	17.7	17.8	15.5	10.7	6.5	5.7	7.6	9.0	5.0
10.....	5.0	8.2	9.3	18.0	17.6	14.8	12.7	6.3	5.8	7.6	9.0	5.0
11.....	4.9	8.4	10.3	18.0	17.3	14.3	13.7	6.1	5.9	7.7	8.9	4.9
12.....	4.8	8.6	10.6	18.1	16.8	13.8	14.5	5.9	5.9	7.6	8.9	4.8
13.....	4.6	8.8	10.3	18.1	16.3	13.5	14.5	5.8	5.8	7.5	8.8	4.5
14.....	4.7	9.1	10.1	17.8	15.8	13.3	14.4	5.7	5.9	7.4	8.7	4.2
15.....	4.7	9.2	10.0	17.4	15.3	13.3	12.6	5.7	5.9	7.3	8.6	4.0
16.....	4.6	8.8	9.9	17.2	15.0	13.5	11.7	5.9	6.0	7.3	8.5	3.5
17.....	4.6	8.9	10.0	16.8	14.7	13.5	10.5	6.2	6.1	7.3	8.3	3.0
18.....	4.6	8.6	10.2	16.7	14.5	13.4	10.0	6.0	6.2	7.3	8.1	2.7
19.....	4.5	8.4	10.3	16.6	14.5	13.5	9.9	6.1	6.6	7.3	8.0	2.5
20.....	4.4	8.4	10.5	16.4	14.2	13.4	9.9	6.2	7.1	7.3	7.8	2.5
21.....	5.2	8.1	10.8	16.2	13.8	13.4	9.8	7.2	8.0	7.3	7.7	2.5
22.....	7.7	7.8	11.8	16.0	13.4	13.7	9.1	7.2	8.2	7.4	7.6	2.3
23.....	9.7	7.7	13.5	16.4	13.0	13.3	8.7	7.9	8.1	7.4	7.3	2.3
24.....	10.2	7.4	14.6	17.1	12.7	12.7	9.0	7.3	7.9	7.7	7.1	2.7
25.....	10.2	7.6	14.8	18.7	12.4	12.3	9.3	7.0	7.3	7.9	6.9	3.3
26.....	Frozen.	7.5	15.7	20.7	12.2	12.0	9.3	6.8	9.4	8.2	6.7	4.3
27.....	9.0	7.4	16.3	21.9	12.1	11.8	8.8	6.7	9.9	8.4	6.6	4.4
28.....	8.7	7.1	16.9	23.0	12.0	11.6	8.5	6.5	10.0	8.7	6.4	3.6
29.....	8.3	6.9	17.5	23.8	12.0	11.5	8.1	6.3	10.1	9.2	6.4	3.1
30.....	7.7	-----	18.0	24.0	12.3	11.5	7.8	6.1	10.7	9.5	6.4	2.6
31.....	7.3	-----	18.6	-----	12.6	-----	7.5	6.0	-----	9.5	-----	2.3
Means.	6.0	7.7	11.2	18.7	16.1	13.5	10.4	6.6	6.9	8.0	8.2	4.1

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, ST. LOUIS, MO.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	-1.2	1.5	6.5	13.5	15.6	13.2	11.2	11.4	10.0	10.5	13.1	10.1
2.....	-2.6	0.9	6.3	14.2	15.4	13.1	11.3	10.9	10.1	11.0	12.2	9.5
3.....	-2.2	0.2	5.8	14.3	15.6	13.0	11.2	10.5	10.2	12.2	11.9	9.0
4.....	-1.2	-0.1	5.5	14.2	15.7	12.8	11.3	10.0	10.1	13.2	12.0	8.6
5.....	0.0	0.1	5.7	14.5	15.4	12.4	11.5	9.6	10.2	13.4	12.2	8.2
6.....	2.2	0.5	7.7	15.0	15.7	12.0	11.3	9.1	10.4	12.9	12.5	7.8
7.....	1.2	1.2	15.0	15.7	15.9	11.6	11.1	8.4	9.9	12.6	13.4	7.5
8.....	2.1	3.0	17.5	16.5	16.3	11.4	10.8	7.8	9.2	12.7	13.9	7.3
9.....	2.1	5.8	17.8	16.6	16.3	11.4	10.5	7.4	8.7	13.2	13.7	7.1
10.....	2.8	7.4	18.5	16.1	16.0	11.1	10.6	7.1	8.2	13.1	13.3	6.9
11.....	3.2	7.4	20.5	15.8	15.8	10.8	10.2	6.7	7.8	12.3	12.9	6.8
12.....	3.0	6.8	21.0	15.9	15.5	10.5	10.3	6.3	7.3	11.5	12.8	6.6
13.....	2.8	6.9	22.3	16.5	16.3	10.7	10.5	5.9	7.1	10.9	12.6	6.4
14.....	2.8	6.3	23.0	18.1	16.5	11.8	10.2	5.6	6.7	10.6	12.4	6.1
15.....	2.9	6.1	23.3	18.6	15.7	13.9	9.7	5.3	6.6	10.3	12.0	5.8
16.....	2.7	6.1	23.4	17.8	15.0	13.0	9.7	5.2	6.5	10.2	11.8	5.6
17.....	2.6	6.2	23.1	16.8	14.0	12.3	10.0	5.1	6.3	10.1	11.7	5.4
18.....	3.0	5.5	22.5	16.0	13.9	11.5	9.6	5.2	6.1	10.1	11.8	5.0
19.....	4.1	4.9	21.5	15.3	14.2	11.2	9.5	6.2	6.0	10.2	12.0	4.8
20.....	6.9	5.2	20.2	15.3	14.2	11.2	9.1	8.0	6.2	10.4	11.9	4.5
21.....	7.7	5.9	19.0	15.9	14.1	11.4	9.1	8.9	6.3	10.7	12.1	4.2
22.....	6.9	7.7	18.2	16.2	14.1	13.0	10.0	9.3	6.9	11.0	12.2	4.0
23.....	6.1	8.4	17.7	16.3	14.2	14.3	11.6	9.3	7.4	11.7	12.1	3.9
24.....	5.7	9.6	17.2	16.7	14.2	14.7	12.8	9.2	7.6	12.1	12.1	3.7
25.....	5.7	9.2	16.6	17.0	13.9	14.5	13.0	9.1	7.7	12.3	12.2	3.6
26.....	5.7	8.1	16.1	17.4	13.4	14.4	13.1	9.0	7.7	12.5	12.1	3.6
27.....	5.6	7.5	15.8	17.5	13.0	13.9	12.8	8.8	7.9	12.5	11.8	3.6
28.....	5.4	6.7	15.1	17.1	12.8	13.3	12.6	8.8	8.3	12.5	11.7	3.6
29.....	4.8	-----	14.7	16.6	12.8	12.5	12.4	8.6	9.3	12.5	11.4	3.5
30.....	4.0	-----	14.2	16.2	13.5	12.0	12.0	8.4	9.9	12.6	10.9	3.1
31.....	3.0	-----	13.7	-----	13.4	-----	11.8	8.8	-----	12.9	-----	3.1
Means.	3.2	5.2	16.3	16.1	14.8	12.4	11.0	8.1	8.1	11.8	12.3	5.8

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, ST. LOUIS, MO.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	3.0	4.4	4.5	18.1	15.2	9.6	14.1	8.3	3.6	3.3	4.1	2.9
2.....	2.7	4.1	4.1	18.2	14.9	9.5	13.6	8.4	3.4	3.1	4.0	2.8
3.....	2.3	4.0	3.8	18.2	14.6	10.4	13.0	8.4	3.3	3.0	3.9	2.7
4.....	1.8	4.2	3.9	18.5	14.3	12.1	12.4	8.3	3.2	2.8	3.8	2.5
5.....	1.4	4.0	4.4	18.7	14.0	12.4	11.8	8.2	3.1	2.9	3.6	2.4
6.....	1.0	3.8	5.0	19.2	13.9	12.6	11.3	7.9	3.0	3.0	3.5	2.4
7.....	0.6	3.6	5.3	19.3	13.6	12.8	11.0	7.4	2.8	3.1	3.4	2.2
8.....	0.9	2.9	5.9	19.5	13.4	13.2	10.8	7.0	2.7	3.2	3.4	2.1
9.....	1.3	2.3	6.8	20.0	13.1	13.3	10.9	6.7	2.6	3.3	3.3	2.0
10.....	2.1	1.7	8.4	21.2	13.0	13.0	12.0	6.5	2.6	3.4	3.4	2.6
11.....	2.7	1.9	12.2	21.6	12.7	12.8	12.2	6.3	2.6	3.3	3.5	2.4
12.....	4.5	2.4	16.0	21.6	12.4	12.6	11.5	6.2	2.6	3.4	3.6	2.3
13.....	5.1	2.5	17.1	21.9	12.2	12.6	11.0	6.1	2.5	3.6	3.5	2.2
14.....	5.3	2.5	17.2	22.0	12.0	12.9	10.7	6.0	2.5	3.5	3.5	2.8
15.....	5.7	2.5	16.9	21.9	11.8	13.7	10.4	5.9	2.4	3.3	3.5	2.0
16.....	5.5	2.7	16.6	21.4	11.5	14.1	10.4	5.7	2.3	3.3	3.6	1.5
17.....	5.4	2.8	16.4	21.9	11.3	13.9	10.4	5.5	2.2	3.5	3.5	0.8
18.....	5.7	3.0	16.3	22.4	11.1	13.5	10.4	5.5	2.4	3.8	3.4	0.1
19.....	5.6	3.4	16.1	22.4	10.9	13.0	10.3	5.3	2.6	4.1	3.3	-1.3
20.....	5.4	3.7	16.3	21.5	10.6	12.8	10.5	5.2	3.1	4.2	3.3	Frozen.
21.....	5.1	3.5	16.1	20.3	10.3	12.9	11.0	5.1	4.4	4.4	3.3	.....
22.....	5.0	3.1	16.8	19.6	10.0	12.9	11.2	5.0	5.2	4.4	3.3	.....
23.....	5.2	3.0	17.6	18.9	9.8	13.3	10.5	4.9	5.1	4.3	3.3	2.2
24.....	5.3	3.5	18.1	18.4	9.7	14.0	10.0	4.8	4.7	4.3	3.4	2.9
25.....	5.1	3.8	18.7	17.6	9.4	14.5	9.5	4.7	4.3	4.1	3.3	3.4
26.....	4.9	4.6	18.8	17.0	10.0	14.7	9.1	4.6	4.0	4.0	3.2	7.0
27.....	4.9	5.2	18.7	16.4	10.8	14.9	8.8	4.3	3.8	4.0	3.1	7.5
28.....	4.9	4.9	18.3	15.9	10.6	15.3	8.6	4.2	3.6	4.0	3.0	7.1
29.....	4.8	.....	18.0	15.4	10.2	15.2	8.4	4.0	3.5	4.1	3.0	7.4
30.....	4.9	.....	17.8	15.4	10.0	14.7	8.2	3.9	3.4	4.1	2.9	6.8
31.....	4.8	.....	17.9	.....	9.7	.....	8.2	3.7	.....	4.1	.....	6.8
<b>Means.</b>	<b>4.0</b>	<b>3.4</b>	<b>13.2</b>	<b>19.5</b>	<b>11.8</b>	<b>13.1</b>	<b>10.7</b>	<b>5.9</b>	<b>3.2</b>	<b>3.6</b>	<b>3.4</b>	<b>3.2</b>
<b>1902</b>												
1.....	6.6	-0.2	3.8	8.4	8.0	17.5	22.8	22.7	20.2	16.7	11.0	14.7
2.....	6.2	-0.1	4.5	10.9	7.8	17.4	23.6	21.8	19.6	16.4	10.5	14.2
3.....	4.8	0.2	3.9	11.3	10.0	18.6	24.2	21.0	19.4	16.4	10.0	13.8
4.....	4.6	2.1	5.9	11.3	11.3	19.6	24.4	20.2	19.6	17.4	9.5	13.8
5.....	7.1	Frozen.	6.1	11.0	10.6	19.4	24.0	19.8	20.0	18.0	9.4	13.4
6.....	8.8	.....	5.7	11.0	9.7	19.1	23.1	19.4	19.6	18.3	9.6	13.5
7.....	9.5	4.0	5.7	12.3	8.6	18.8	22.3	19.2	18.8	19.0	10.5	13.3
8.....	8.9	Frozen.	6.5	12.4	7.9	18.0	21.9	19.0	17.8	20.1	10.6	14.1
9.....	7.8	.....	7.8	11.5	7.6	17.5	22.0	18.6	16.6	20.8	11.3	13.8
10.....	5.7	.....	8.7	10.8	8.1	18.0	21.8	18.2	15.7	20.6	12.1	13.0
11.....	2.8	.....	8.8	10.4	9.1	18.7	21.2	17.6	15.0	19.8	12.4	12.1
12.....	2.0	.....	8.7	10.1	10.7	19.7	21.3	17.0	14.5	18.6	12.0	10.8
13.....	1.7	.....	9.4	9.6	11.4	19.6	22.3	16.8	13.9	18.3	11.4	10.6
14.....	1.2	.....	11.0	9.3	11.9	19.9	23.7	16.7	13.1	17.2	10.7	10.8
15.....	0.8	.....	11.6	9.1	11.8	20.9	24.6	16.1	12.3	16.4	10.4	10.5
16.....	1.1	.....	12.9	8.8	11.7	20.9	25.2	15.3	11.6	15.6	10.0	9.7
17.....	1.5	.....	13.4	8.5	11.6	20.5	25.6	14.9	10.8	15.4	10.0	8.8
18.....	1.4	.....	13.0	8.2	11.5	20.2	26.0	14.8	10.4	15.4	10.4	8.8
19.....	1.4	.....	12.5	8.4	11.7	19.9	26.3	15.2	9.8	15.6	11.5	9.2
20.....	1.7	.....	11.6	8.3	12.5	19.7	26.3	15.6	9.2	16.0	12.9	9.9
21.....	1.7	.....	10.5	8.6	12.1	19.2	26.1	16.8	8.6	16.1	13.7	10.0
22.....	1.8	.....	9.8	7.3	11.8	18.7	25.8	16.9	8.1	16.8	14.0	11.6
23.....	1.7	.....	9.3	7.7	11.6	18.5	26.3	18.3	7.8	17.1	13.8	12.4
24.....	1.6	.....	8.9	9.0	12.0	18.5	26.7	18.4	7.5	17.0	13.5	13.4
25.....	1.6	.....	8.5	8.8	12.7	18.3	26.8	18.3	8.2	16.9	13.2	14.5
26.....	1.3	.....	7.9	8.3	13.5	18.3	26.9	18.4	11.4	16.6	13.3	14.5
27.....	1.0	5.1	7.9	7.4	14.3	18.6	26.7	18.6	13.0	15.7	13.5	13.9
28.....	0.0	3.1	8.1	6.7	16.2	19.2	26.0	19.5	14.0	14.4	13.7	13.2
29.....	-1.0	.....	8.1	7.3	18.0	20.9	25.2	20.0	15.2	13.1	14.1	12.7
30.....	-1.2	.....	8.1	7.8	18.2	21.2	24.3	20.5	16.5	12.2	14.8	11.1
31.....	-0.7	.....	8.2	.....	17.4	.....	23.5	20.4	.....	11.6	.....	9.5
<b>Means.</b>	<b>3.0</b>	<b>.....</b>	<b>8.6</b>	<b>9.4</b>	<b>11.7</b>	<b>19.2</b>	<b>24.4</b>	<b>18.3</b>	<b>13.9</b>	<b>16.8</b>	<b>11.8</b>	<b>12.1</b>

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, SAINT LOUIS, MO.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	8.1	10.1	15.6	20.1	18.6	27.8	21.1	17.1	17.8	17.4	15.4	6.1
2.....	7.6	9.6	15.8	19.9	17.9	29.9	20.8	16.4	19.5	17.4	15.2	6.0
3.....	7.8	9.5	16.3	19.6	17.9	31.2	20.1	15.7	20.3	17.4	15.0	5.6
4.....	8.1	11.3	17.0	19.6	17.8	32.1	19.3	16.2	20.2	17.6	14.8	5.1
5.....	8.6	15.2	17.9	20.0	17.4	33.5	18.5	14.9	19.9	17.8	14.5	4.9
6.....	8.8	16.0	18.1	21.5	17.2	34.7	17.7	14.5	19.2	18.1	14.4	4.8
7.....	9.1	15.0	18.5	22.0	17.0	36.3	17.2	15.4	18.4	18.4	14.9	4.6
8.....	9.2	14.2	20.3	22.2	16.8	37.3	17.0	16.6	17.8	19.1	15.3	4.4
9.....	8.6	13.2	23.8	21.8	16.9	37.4	17.1	17.0	17.8	20.3	15.2	4.2
10.....	8.4	11.2	25.0	21.6	17.0	37.9	17.2	17.0	17.2	21.5	14.8	4.0
11.....	7.7	10.6	25.8	21.2	16.9	37.9	17.1	17.3	17.3	22.5	14.5	3.7
12.....	7.0	10.4	25.0	22.4	16.6	37.7	16.8	17.1	18.4	22.3	14.3	3.3
13.....	5.6	11.0	24.5	23.5	16.4	37.3	16.2	17.0	20.3	21.9	13.7	3.3
14.....	4.6	11.9	24.0	23.8	16.1	36.6	15.8	17.3	21.0	21.5	13.2	2.1
15.....	4.6	11.6	24.4	24.0	15.9	35.3	15.9	17.3	20.9	21.2	12.8	1.8
16.....	4.5	10.7	24.0	23.9	15.8	33.7	16.8	17.8	21.4	20.7	12.4	1.4
17.....	5.0	10.7	23.3	23.9	17.2	32.3	17.8	17.3	21.8	20.1	11.9	0.8
18.....	6.0	9.7	23.5	24.6	19.7	31.0	19.3	17.3	21.2	19.5	11.4	0.6
19.....	6.8	8.3	23.5	24.1	20.8	29.6	20.0	17.8	20.9	18.9	10.8	1.0
20.....	7.4	8.0	23.2	23.5	21.2	28.3	19.6	17.8	21.0	18.3	9.9	1.2
21.....	7.4	7.6	24.0	23.2	21.0	27.5	19.0	18.0	20.5	17.8	9.5	1.7
22.....	7.1	7.8	24.3	23.4	20.5	27.0	18.8	18.1	19.6	17.2	9.3	2.3
23.....	7.1	8.0	23.8	22.9	20.3	26.1	19.0	17.4	18.8	16.9	9.3	2.6
24.....	6.9	8.2	23.8	22.3	20.2	25.6	19.2	17.0	17.9	16.6	9.0	2.8
25.....	6.8	8.4	23.6	21.7	20.5	25.1	19.5	16.0	17.2	16.5	8.5	4.0
26.....	6.3	8.6	23.1	21.0	21.7	24.8	20.5	15.6	16.8	16.3	8.0	4.2
27.....	6.5	9.0	22.6	20.4	24.5	24.0	20.8	15.2	16.7	16.1	7.7	4.1
28.....	8.2	13.5	21.8	20.0	24.6	22.8	20.0	15.2	17.0	15.9	6.9	3.7
29.....	10.4		21.3	19.4	24.4	21.6	19.2	15.5	17.2	15.8	6.8	4.0
30.....	10.3		20.8	19.0	24.8	21.0	18.7	16.4	17.3	15.7	6.4	4.4
31.....	10.2		20.6		25.6		18.0	17.2		15.6		4.8
<b>Means.</b>	<b>7.4</b>	<b>10.7</b>	<b>21.9</b>	<b>21.9</b>	<b>19.3</b>	<b>30.8</b>	<b>18.5</b>	<b>16.7</b>	<b>19.0</b>	<b>18.5</b>	<b>11.9</b>	<b>3.5</b>
<b>1904</b>												
1.....	5.2	7.6	7.4	25.0	33.2	23.3	24.3	13.0	7.8	11.7	9.9	5.0
2.....	5.1	6.6	7.2	24.5	32.8	24.5	23.6	12.6	7.4	11.1	9.8	4.8
3.....	4.9	6.3	7.2	24.3	32.1	24.5	23.0	12.2	7.2	10.7	9.6	4.7
4.....	4.4	6.2	7.4	23.7	31.6	23.6	22.6	11.8	7.2	10.2	9.5	4.6
5.....	3.6	6.2	7.5	23.1	30.5	24.7	22.3	11.6	7.8	9.5	9.3	4.4
6.....	3.8	6.5	8.6	22.5	29.2	27.4	21.8	11.4	7.8	8.9	9.1	4.2
7.....	3.8	7.2	9.1	21.8	27.9	28.8	21.0	11.0	7.3	8.8	9.0	4.0
8.....	3.8	7.3	9.2	21.3	26.8	29.0	20.7	10.6	6.8	8.7	8.9	3.8
9.....	3.5	7.7	9.9	21.2	26.5	28.2	23.1	10.0	6.6	8.3	8.7	3.6
10.....	3.3	8.4	10.2	22.3	26.4	27.2	25.7	9.6	6.8	8.0	8.6	3.6
11.....	3.5	9.0	10.7	23.0	25.9	26.5	27.4	8.8	6.9	7.9	8.4	3.6
12.....	3.4	9.7	11.6	23.5	25.2	25.7	28.3	8.5	6.8	7.8	8.4	3.4
13.....	3.5	9.8	11.6	23.8	24.4	24.9	28.4	8.1	6.6	7.5	8.3	3.2
14.....	3.6	10.2	11.8	23.6	23.5	24.5	27.7	8.0	6.6	7.2	8.1	2.6
15.....	4.0	10.5	11.6	23.4	22.6	24.6	26.2	8.0	6.4	7.0	7.9	2.1
16.....	4.2	10.1	11.4	23.4	21.9	25.2	24.1	8.1	6.2	6.8	7.8	1.9
17.....	4.1	9.6	11.6	23.1	21.5	25.3	22.2	8.4	6.3	6.7	7.6	1.6
18.....	4.5	8.8	12.2	24.3	21.5	25.0	21.5	8.3	6.5	6.7	7.4	1.6
19.....	4.8	8.4	12.7	24.6	22.0	24.8	21.2	8.3	7.3	6.6	7.2	0.6
20.....	4.8	8.7	12.9	24.2	22.3	24.9	20.9	9.5	9.4	6.6	7.0	0.4
21.....	5.3	8.5	12.9	23.6	21.8	25.0	20.4	11.4	10.7	6.6	6.7	0.4
22.....	9.0	7.9	13.2	23.8	21.0	25.5	19.8	11.3	11.5	6.7	6.5	0.2
23.....	12.8	7.4	15.2	24.0	20.4	25.3	18.1	11.5	10.8	6.9	6.3	0.1
24.....	15.4	7.4	16.8	25.0	19.7	24.3	17.3	12.4	9.8	7.1	6.1	0.5
25.....	15.2	7.6	17.8	26.0	19.3	23.5	17.3	12.1	9.5	7.4	5.9	0.6
26.....	15.0	7.8	19.8	31.0	18.7	22.4	17.3	12.4	10.1	7.7	5.7	1.0
27.....	14.1	8.1	20.9	32.2	18.5	21.7	16.7	12.6	11.0	8.0	5.5	2.0
28.....	12.1	8.0	23.1	33.0	18.8	21.6	15.6	11.6	10.9	8.4	5.2	2.2
29.....	11.2	7.7	24.5	33.5	18.8	22.4	14.9	10.3	10.9	9.0	5.2	0.9
30.....	9.9		25.2	33.6	19.1	23.8	14.2	9.1	11.4	9.5	5.1	0.3
31.....	8.9		25.1		20.9		13.6	8.5		9.9		0.2
<b>Means.</b>	<b>6.8</b>	<b>8.1</b>	<b>13.4</b>	<b>25.1</b>	<b>24.0</b>	<b>24.9</b>	<b>21.3</b>	<b>10.4</b>	<b>8.3</b>	<b>8.2</b>	<b>7.6</b>	<b>2.3</b>

a 33.0 during day.

b 0.5 at 6 p. m.

c 33.6 at 6 p. m.

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, CHESTER, ILL.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	-1.6	1.5	4.9	10.6	12.5	10.6	9.5	8.7	6.9	7.0	9.5	8.1
2.....	-3.8	0.2	4.7	10.6	12.0	10.1	9.1	8.4	7.1	7.5	9.4	7.4
3.....	-4.1	-0.1	4.6	10.9	11.8	10.1	9.1	8.0	7.3	7.9	8.8	6.9
4.....	-3.4	1.1	4.5	10.9	11.8	10.1	9.0	7.7	7.3	8.9	8.5	6.5
5.....	-2.8	-0.8	4.9	10.9	11.9	9.9	9.0	7.3	7.3	9.6	8.6	6.0
6.....	-1.1	-0.7	6.1	11.1	11.8	9.7	9.0	6.9	7.4	9.6	8.8	5.7
7.....	-0.2	0.3	9.2	11.6	12.1	9.3	8.9	6.5	7.5	9.3	9.1	5.5
8.....	1.5	0.3	13.3	12.2	12.5	9.0	8.7	6.1	7.1	9.2	9.7	5.2
9.....	0.9	2.2	14.3	12.7	12.8	8.9	8.2	5.7	6.5	9.3	10.1	5.1
10.....	1.1	4.1	14.8	12.7	12.7	8.8	8.0	5.3	6.1	9.6	10.0	4.9
11.....	1.3	5.3	15.5	12.6	12.6	8.7	7.9	5.0	5.7	9.4	9.6	4.8
12.....	1.5	5.3	16.7	12.4	12.4	8.4	7.7	4.7	5.4	8.8	9.3	4.6
13.....	1.4	4.9	17.5	12.6	12.4	8.2	7.7	4.4	5.1	8.2	9.2	4.5
14.....	1.3	4.9	18.5	13.3	12.8	8.5	7.8	4.1	4.9	7.7	9.0	4.3
15.....	1.3	4.5	19.0	14.3	12.7	10.2	7.4	3.9	4.6	7.5	8.9	4.1
16.....	1.3	4.3	19.4	14.4	12.0	11.1	7.2	3.7	4.5	7.3	8.6	3.9
17.....	1.3	4.1	19.3	13.8	11.3	10.4	7.2	3.5	4.4	7.2	8.5	3.7
18.....	1.4	3.9	19.0	13.0	10.7	9.5	7.4	3.5	4.2	7.1	8.5	3.5
19.....	1.6	3.6	18.2	12.3	10.7	9.0	7.3	3.6	4.0	7.1	8.7	3.3
20.....	2.5	3.5	17.3	11.8	10.7	8.8	7.0	4.5	4.1	7.2	8.8	3.0
21.....	4.4	3.5	16.1	12.0	10.7	8.7	7.0	5.6	4.2	7.3	8.7	2.8
22.....	4.9	4.1	15.2	12.3	10.7	9.1	7.1	6.4	4.3	7.7	8.9	2.6
23.....	4.5	5.4	14.7	12.5	10.7	10.3	7.7	6.6	4.8	7.9	9.0	2.5
24.....	3.9	6.2	14.3	12.9	10.7	11.3	8.9	6.6	5.1	8.4	9.3	2.3
25.....	3.5	7.0	13.9	13.1	10.7	11.8	9.8	6.5	5.2	8.7	9.2	2.2
26.....	3.5	6.4	13.3	13.4	10.4	11.7	10.3	6.6	5.3	8.9	9.2	2.2
27.....	3.5	5.9	13.0	13.7	10.1	11.5	10.4	6.5	5.4	9.1	9.2	2.2
28.....	3.4	5.5	12.6	13.6	9.8	11.2	10.0	6.5	5.5	9.1	9.1	2.2
29.....	3.2		11.9	13.3	9.6	10.6	9.7	6.5	5.9	9.1	8.9	2.2
30.....	2.5		11.4	12.8	9.8	10.0	9.3	6.3	6.6	9.2	8.6	2.1
31.....	1.9		11.0		10.3		9.0	6.5		9.2		1.8
Means.	1.3	3.4	13.2	12.5	14.6	9.8	8.5	5.9	5.7	8.4	9.1	4.1
<b>1901</b>												
1.....	1.8	2.8	3.0	14.7	13.0	7.6	11.5	6.2	2.8	2.4	2.9	1.9
2.....	1.4	2.5	2.8	15.0	12.7	7.5	11.0	6.3	2.7	2.3	2.8	1.8
3.....	1.3	2.4	2.5	15.0	12.4	7.4	10.6	6.4	2.6	2.2	2.8	1.8
4.....	1.1	2.3	2.2	15.1	12.1	8.3	10.0	6.4	2.4	2.1	2.6	1.7
5.....	0.8	2.5	2.3	15.2	11.8	9.3	9.5	6.2	2.3	2.0	2.5	1.6
6.....	0.5	2.4	2.7	15.4	11.6	9.6	9.1	6.2	2.2	2.0	2.3	1.5
7.....	0.2	2.5	3.1	15.8	11.3	9.8	8.7	5.9	2.1	2.1	2.3	1.4
8.....	0.1	2.4	3.4	16.1	11.0	10.0	8.4	5.6	2.0	2.1	2.3	1.4
9.....	0.0	1.8	4.0	16.3	10.8	10.3	8.3	5.3	2.0	2.2	2.3	1.4
10.....	0.4	1.3	5.2	16.9	10.7	10.3	8.5	5.1	2.0	2.3	2.2	1.5
11.....	1.0	0.8	7.3	17.9	10.4	10.2	9.2	4.9	2.0	2.3	2.2	1.5
12.....	1.6	0.9	10.6	18.2	10.2	9.9	9.2	4.8	2.0	2.4	2.3	1.4
13.....	2.8	1.2	12.7	18.4	10.0	9.8	8.7	4.7	2.0	2.4	2.4	1.3
14.....	3.3	1.2	13.5	18.7	9.8	9.8	8.3	4.6	1.9	2.5	2.4	1.8
15.....	3.6	1.3	13.5	18.8	9.6	10.2	8.1	4.5	1.8	2.4	2.3	1.9
16.....	3.8	1.4	13.4	18.7	9.4	10.8	8.0	4.4	1.8	2.3	2.3	1.5
17.....	3.7	1.5	13.3	18.5	9.1	11.1	7.9	4.3	1.6	2.3	2.3	1.2
18.....	3.6	1.5	13.1	19.3	8.9	10.9	7.9	4.2	1.6	2.4	2.3	Frozen.
19.....	3.7	1.7	13.0	19.7	8.8	10.5	7.9	4.1	1.7	2.6	2.2	
20.....	3.6	1.9	12.9	19.6	8.7	10.1	7.9	4.0	1.9	2.8	2.2	0.3
21.....	3.5	2.1	12.9	18.7	8.4	9.9	8.0	3.9	2.3	3.0	2.2	-0.3
22.....	3.3	1.9	12.9	17.7	8.1	9.9	8.4	3.8	3.2	3.0	2.2	0.3
23.....	3.2	1.8	13.7	17.0	8.0	10.0	8.3	3.7	3.8	3.0	2.2	0.5
24.....	3.3	1.6	14.3	16.4	7.8	10.4	7.9	3.7	3.7	3.0	2.2	1.5
25.....	3.3	1.7	14.8	15.7	7.7	11.1	7.5	3.6	3.4	2.9	2.2	2.0
26.....	3.2	2.0	15.3	15.1	7.5	11.4	7.2	3.5	3.1	2.8	2.1	2.0
27.....	3.0	2.6	15.4	14.5	8.0	11.6	6.9	3.4	2.9	2.8	2.1	0.2
28.....	3.0	3.0	15.3	14.0	8.3	11.8	6.7	3.3	2.7	2.8	2.0	0.7
29.....	3.0		15.0	13.7	8.1	12.0	6.5	3.1	2.5	2.8	1.9	0.4
30.....	2.9		14.9	13.3	7.9	11.9	6.3	3.1	2.5	2.8	1.9	0.2
31.....	2.9		14.6		7.7		6.2	3.0		2.8		0.1
Means.	2.4	1.9	10.1	16.6	9.7	10.1	8.3	4.6	2.4	2.5	2.3	1.2

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, CHESTER, ILL.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	0.1	-0.5	2.6	8.1	6.2	14.3	18.3	19.6	16.9	12.8	8.9	11.3
2.....	0.1	1.9	3.4	8.7	6.2	14.0	19.6	18.8	16.5	12.9	8.5	11.2
3.....	0.1	3.3	3.9	9.1	6.4	14.1	20.2	18.0	15.9	12.8	8.2	11.2
4.....	0.3	2.8	3.8	9.2	8.0	15.3	20.7	17.1	15.7	13.2	7.9	10.8
5.....	0.2	1.9	4.9	9.1	8.6	15.8	20.6	16.5	16.1	13.9	7.6	10.6
6.....	-0.4	2.8	4.7	9.0	8.2	15.6	20.2	16.0	16.3	14.3	7.5	10.6
7.....	-0.4	3.1	4.3	9.2	7.6	15.4	19.4	15.8	15.8	14.8	7.7	10.6
8.....	0.1	3.2	4.4	9.8	6.8	15.0	19.0	15.6	15.0	15.6	8.2	10.7
9.....	0.6	3.3	5.1	9.6	6.2	14.3	18.5	15.3	14.1	16.5	8.3	10.9
10.....	0.9	3.1	6.0	9.0	6.0	14.1	18.5	15.0	13.0	17.0	8.8	10.6
11.....	1.1	2.7	6.6	8.5	6.5	14.5	18.3	14.6	12.3	16.6	9.4	10.0
12.....	1.1	2.9	6.6	8.1	7.5	15.3	17.8	14.1	11.9	15.8	9.5	9.3
13.....	0.9	2.9	6.6	7.8	8.1	15.9	17.9	13.6	11.3	15.0	9.2	9.1
14.....	0.6	2.8	7.2	7.4	8.7	15.9	18.8	13.4	10.8	14.3	8.7	9.5
15.....	0.1	2.8	8.4	7.2	8.9	16.4	19.9	13.3	10.2	13.5	8.4	9.7
16.....	-0.1	2.7	9.2	6.9	8.9	17.0	20.7	12.7	9.5	12.8	8.2	9.7
17.....	0.2	3.0	10.2	6.6	8.8	16.9	21.2	12.2	9.0	12.3	8.0	9.0
18.....	0.4	3.2	10.3	6.5	8.7	16.6	21.7	11.9	9.0	12.1	7.9	8.2
19.....	0.6	3.3	10.0	6.3	8.7	16.3	22.0	12.2	8.4	12.1	8.2	8.2
20.....	0.6	3.1	9.5	6.3	9.0	16.1	22.3	12.3	8.0	12.3	9.0	8.3
21.....	0.7	3.1	8.8	6.3	9.3	15.9	22.2	12.8	7.5	12.5	10.0	9.0
22.....	0.7	3.1	8.0	5.8	9.3	15.4	22.0	14.0	7.1	12.7	10.6	9.3
23.....	0.7	3.2	7.3	5.5	8.9	15.0	22.0	14.6	6.8	13.3	10.7	10.0
24.....	0.7	3.2	7.0	5.9	8.8	14.9	22.3	14.8	6.5	13.5	10.5	10.5
25.....	0.7	3.1	6.6	6.7	9.7	14.9	22.6	14.9	6.5	13.4	10.4	11.2
26.....	0.6	3.2	6.3	6.5	10.5	14.8	22.7	14.9	7.6	13.3	10.2	11.7
27.....	0.2	5.2	6.3	6.1	10.9	14.9	22.8	15.2	9.2	12.9	10.2	11.7
28.....	0.2	3.4	6.6	5.6	11.7	15.2	22.5	15.6	10.2	12.0	10.4	11.3
29.....	-0.8	.....	8.0	5.8	13.5	16.4	21.9	16.1	11.0	10.9	10.7	10.6
30.....	-1.4	.....	8.0	6.0	14.7	17.8	21.1	16.8	12.0	10.1	11.0	9.9
31.....	-1.4	.....	8.1	.....	14.7	.....	20.3	17.1	.....	9.4	.....	8.9
<b>Means.</b>	<b>0.2</b>	<b>2.9</b>	<b>6.7</b>	<b>7.4</b>	<b>8.9</b>	<b>15.5</b>	<b>20.6</b>	<b>15.0</b>	<b>11.3</b>	<b>13.4</b>	<b>9.1</b>	<b>10.1</b>
<b>1903</b>												
1.....	7.8	8.5	12.0	17.0	15.6	21.7	17.6	14.7	14.2	14.1	12.7	5.9
2.....	7.1	8.4	13.1	16.6	15.3	23.7	17.6	14.1	14.9	14.1	12.6	5.7
3.....	6.8	8.0	13.4	16.4	15.0	25.4	17.3	13.5	16.3	14.1	12.4	5.5
4.....	6.8	8.3	13.6	16.1	14.7	26.7	16.7	13.3	16.6	14.2	12.3	5.2
5.....	7.0	10.1	14.8	16.2	14.4	27.9	16.0	13.3	16.5	14.4	12.1	5.0
6.....	7.3	12.8	15.4	17.0	14.0	29.0	15.4	12.7	16.1	14.6	12.0	4.7
7.....	7.4	13.1	15.9	17.8	13.7	30.0	14.9	12.5	15.5	14.9	12.0	4.7
8.....	7.4	12.3	17.1	18.4	13.6	31.2	14.6	13.3	14.9	15.3	12.2	4.5
9.....	7.4	11.6	19.5	18.4	13.5	31.7	14.5	13.9	14.6	15.8	12.4	4.4
10.....	7.1	10.8	21.5	18.0	13.5	32.2	14.5	14.1	14.5	16.9	12.4	4.1
11.....	6.7	10.0	22.2	17.6	13.5	32.8	14.6	14.2	14.1	18.0	12.2	4.0
12.....	5.8	9.6	22.3	17.7	13.4	33.1	14.5	14.3	14.2	18.4	11.9	3.9
13.....	5.3	9.5	21.8	19.2	13.2	33.3	14.2	14.1	15.7	18.2	11.6	3.6
14.....	4.4	9.9	21.3	19.9	13.1	33.3	13.7	14.3	16.8	17.9	11.2	3.2
15.....	4.2	10.0	21.1	20.3	12.8	32.8	13.7	14.2	17.1	17.5	10.9	2.6
16.....	4.1	10.4	21.2	20.5	12.6	32.0	13.9	14.6	17.2	17.1	10.6	2.2
17.....	4.1	9.8	20.9	20.4	12.8	30.8	14.5	14.6	17.8	16.7	10.3	1.9
18.....	4.4	8.8	20.3	20.4	14.4	29.4	15.4	14.4	17.7	16.0	10.0	1.4
19.....	4.9	8.2	20.4	20.8	16.0	27.8	16.2	14.5	17.3	15.5	9.6	1.6
20.....	5.3	7.5	20.3	20.4	17.0	26.0	16.5	14.7	17.2	15.1	9.2	3.9
21.....	5.7	7.2	20.4	19.9	17.2	24.5	16.1	14.7	17.1	14.7	8.9	3.7
22.....	5.7	7.0	21.1	19.7	16.8	23.6	15.8	14.8	16.6	14.3	8.6	3.6
23.....	5.5	7.0	21.2	19.7	16.6	22.8	15.7	14.7	15.8	13.9	8.3	3.6
24.....	5.5	7.2	20.8	19.2	16.4	22.1	15.8	14.2	15.1	13.7	8.1	3.2
25.....	5.3	7.4	20.5	18.7	16.3	21.6	16.0	13.6	14.5	13.5	7.8	3.6
26.....	5.2	7.5	20.3	18.0	16.9	21.1	16.3	13.3	14.0	13.4	7.5	4.0
27.....	5.2	8.0	19.8	17.5	18.4	20.8	17.0	13.1	13.7	13.2	7.2	4.1
28.....	5.6	9.2	19.2	17.0	19.9	19.9	16.9	12.8	13.7	13.1	6.8	3.9
29.....	7.4	.....	18.5	16.5	20.2	18.8	16.3	12.8	13.9	13.0	6.4	3.9
30.....	8.5	.....	17.8	16.1	20.3	17.9	15.8	13.1	14.0	12.9	6.1	4.1
31.....	8.5	.....	17.8	.....	20.6	.....	15.2	13.8	.....	12.7	.....	4.4
<b>Means.</b>	<b>6.1</b>	<b>9.2</b>	<b>18.9</b>	<b>18.4</b>	<b>15.5</b>	<b>26.8</b>	<b>15.6</b>	<b>13.9</b>	<b>15.6</b>	<b>15.1</b>	<b>10.2</b>	<b>3.9</b>



	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1904</b>												
1.....	4.7	7.6	7.0	22.7	30.4	18.7	20.4	12.1	8.3	10.7	8.9	5.1
2.....	4.9	6.9	6.7	22.5	30.2	20.2	20.3	11.9	7.9	10.7	8.9	4.9
3.....	4.8	6.1	6.5	22.2	29.9	21.4	20.7	11.4	7.6	10.4	8.9	4.8
4.....	4.6	5.8	6.6	21.8	29.4	21.4	19.1	11.1	7.4	10.2	8.8	4.7
5.....	4.0	5.6	6.7	21.3	28.5	20.8	18.9	11.0	7.5	9.7	8.6	4.6
6.....	3.7	5.7	7.0	20.7	27.4	22.2	18.7	10.8	7.8	9.1	8.5	4.5
7.....	3.6	6.1	7.7	20.1	26.1	23.8	18.2	10.5	7.6	8.7	8.3	4.4
8.....	3.7	6.8	8.1	19.4	24.8	24.6	17.7	10.2	7.3	8.5	8.2	4.1
9.....	3.8	7.0	8.3	18.8	23.7	24.6	18.5	9.7	7.0	8.3	8.1	3.9
10.....	3.6	7.3	8.7	18.9	23.3	24.0	20.4	9.3	6.9	8.0	8.0	3.9
11.....	3.6	7.8	8.9	19.8	22.9	23.1	22.1	9.0	7.0	7.8	7.9	3.9
12.....	3.6	8.1	9.4	20.1	22.2	22.4	23.2	8.6	7.1	7.7	7.9	3.8
13.....	3.5	8.6	9.8	20.5	21.7	21.7	23.8	8.4	6.9	7.5	7.8	3.6
14.....	3.6	8.6	10.0	20.5	20.8	21.0	23.7	8.2	6.9	7.4	7.7	3.4
15.....	3.6	9.0	9.9	20.3	19.9	20.7	22.9	8.8	6.8	7.1	7.5	2.9
16.....	3.9	9.1	9.8	20.2	19.1	21.0	21.8	8.2	6.7	6.9	7.4	2.6
17.....	4.0	8.8	9.8	20.0	18.8	21.3	20.0	8.3	6.6	6.8	7.2	2.4
18.....	4.0	8.4	9.9	20.2	18.4	21.3	18.8	8.4	6.6	6.8	7.1	2.2
19.....	4.3	7.8	10.4	21.0	18.5	22.0	18.4	8.5	7.8	6.7	6.9	1.8
20.....	4.5	7.5	10.7	21.2	18.9	21.4	18.2	8.7	9.2	6.6	6.7	1.4
21.....	4.6	7.5	11.0	20.9	18.8	21.3	17.9	9.9	10.0	6.6	6.6	1.3
22.....	6.0	7.5	11.2	20.7	18.4	21.4	17.4	10.7	10.7	6.6	6.4	1.3
23.....	8.8	7.3	11.6	21.0	17.8	21.6	16.4	10.6	10.5	6.6	6.2	1.2
24.....	11.8	7.0	13.0	21.2	17.3	21.1	15.7	11.0	9.8	6.7	6.0	1.2
25.....	12.8	7.0	14.6	23.2	16.7	20.4	15.4	11.3	9.6	6.9	5.9	1.5
26.....	12.2	7.2	20.1	26.0	16.4	19.5	15.4	11.1	9.2	7.2	5.7	1.6
27.....	11.8	7.3	18.9	28.1	16.0	18.7	15.1	11.4	9.8	7.4	5.5	2.0
28.....	11.2	7.5	19.9	29.3	15.8	18.5	14.4	11.1	10.2	7.6	5.3	2.6
29.....	10.2	7.3	22.0	30.1	16.0	18.5	13.6	10.4	10.3	8.0	5.2	2.3
30.....	9.6	-----	22.9	30.4	16.1	19.5	13.0	9.5	10.3	8.3	5.1	1.3
31.....	8.4	-----	22.9	-----	16.9	-----	12.5	8.8	-----	8.7	-----	1.1
<b>Means.</b>	<b>6.0</b>	<b>7.4</b>	<b>11.6</b>	<b>22.1</b>	<b>21.3</b>	<b>21.3</b>	<b>18.5</b>	<b>10.0</b>	<b>8.2</b>	<b>7.9</b>	<b>7.2</b>	<b>2.9</b>

[illegible]

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, NEW MADRID, MO.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1			8.7	24.2	34.0	23.7	22.3	9.4	16.6	9.8	4.7	3.5
2			8.6	24.9	34.2	23.5	22.8	9.1	15.2	9.2	4.6	3.7
3			8.5	25.9	34.2	23.1	22.8	8.9	13.9	8.7	4.5	3.9
4			8.3	27.1	34.1	22.7	22.4	8.8	12.7	8.3	4.5	3.9
5			7.9	28.0	33.9	22.7	21.4	8.8	11.8	7.8	4.4	3.9
6			7.7	28.6	33.5	22.9	20.4	8.6	11.2	7.3	4.2	3.9
7			7.5	29.1	33.0	23.3	19.1	8.4	10.8	6.9	4.0	4.2
8			7.6	29.5	32.2	23.3	17.8	8.1	10.5	6.5	3.9	5.1
9			7.7	29.7	31.0	23.0	16.7	7.8	10.4	6.3	3.8	5.9
10			8.3	30.0	29.2	22.6	15.9	7.4	10.3	6.1	3.7	6.3
11			9.6	30.5	26.7	22.1	15.2	7.2	10.1	6.0	3.6	6.5
12			12.6	31.0	24.1	21.5	14.8	7.0	9.7	6.1	3.6	6.5
13			15.5	31.4	21.7	20.8	14.6	6.7	9.5	6.5	3.6	6.4
14			20.3	31.5	19.7	20.1	14.3	6.9	9.2	7.1	3.6	6.9
15			23.9	31.3	18.2	19.6	13.9	7.8	8.5	7.1	3.6	9.0
16			25.9	31.0	17.1	19.3	13.5	8.3	8.1	6.7	3.5	10.8
17			26.5	30.6	16.4	19.1	13.2	8.9	8.1	6.4	3.5	12.1
18			26.7	30.3	15.9	18.9	13.0	9.5	8.3	6.0	3.5	13.4
19			26.7	30.2	15.6	18.7	12.6	10.7	8.7	5.8	3.4	14.9
20			26.6	30.1	15.4	18.2	12.2	13.1	9.4	5.8	3.4	16.7
21			26.6	30.0	15.4	17.6	11.8	15.3	10.2	5.8	3.4	18.6
22			26.4	30.0	15.5	17.1	11.5	16.8	11.0	5.8	3.4	20.3
23			26.1	30.2	15.7	16.9	11.3	18.0	11.6	5.8	3.4	21.9
24			25.8	30.6	15.8	17.1	11.2	18.8	12.3	5.8	3.4	22.5
25			25.4	31.3	15.9	17.9	11.0	19.5	12.8	5.7	3.4	22.3
26			25.2	32.0	16.4	19.0	10.7	20.0	12.8	5.5	3.4	21.5
27			24.8	32.6	17.2	19.8	10.4	20.3	12.5	5.4	3.4	20.1
28			24.3	33.1	18.4	20.3	10.2	20.3	11.9	5.2	3.3	18.7
29			23.7	33.5	20.2	20.8	10.0	19.8	11.2	5.0	3.3	17.1
30			23.5	33.8	22.1	21.4	9.8	19.0	10.5	4.9	3.3	15.9
31			23.7		23.3		9.7	17.9		4.8		15.0
<b>Means.</b>			18.4	30.1	23.1	20.6	14.7	12.2	11.0	6.5	3.7	11.7
<b>1902</b>												
1	15.1	19.2	13.8	26.2	15.9	19.6	17.6	21.3	16.2	10.8	11.7	15.0
2	16.0	21.6	15.7	27.0	16.5	19.6	18.7	20.8	16.4	11.9	10.9	15.9
3	17.6	23.7	17.5	27.8	17.2	19.5	20.1	20.3	16.3	12.8	10.4	16.8
4	19.5	25.3	19.9	28.7	17.5	19.3	22.1	19.8	16.0	13.3	9.8	17.8
5	21.4	26.4	22.5	29.5	17.7	19.2	23.7	19.3	15.5	13.8	9.4	18.1
6	23.1	27.2	24.8	30.2	18.3	19.3	24.8	18.8	15.4	14.3	9.1	18.4
7	24.2	27.7	26.4	30.7	18.7	19.1	25.5	18.3	15.6	14.7	8.7	19.0
8	24.8	28.0	27.7	30.9	18.5	18.7	25.5	17.8	15.7	15.0	8.4	20.0
9	24.9	28.1	28.7	30.9	17.9	18.3	25.4	17.5	15.4	15.5	8.4	20.5
10	24.7	27.8	29.6	30.7	16.9	17.8	25.1	17.3	14.8	16.2	8.5	20.7
11	24.1	27.0	30.5	30.1	15.8	17.2	24.8	17.1	14.0	16.9	8.7	20.5
12	23.0	25.3	31.3	29.0	14.8	16.9	24.5	16.8	13.2	17.2	8.9	20.2
13	21.6	23.0	31.9	27.3	14.2	16.8	24.2	16.5	12.9	16.9	9.3	19.7
14	19.8	20.5	32.3	25.3	14.0	17.1	23.9	16.1	11.9	16.5	9.5	19.6
15	17.3	18.2	32.7	23.5	13.9	17.3	23.7	15.8	11.4	16.0	9.4	19.9
16	15.0	16.2	33.0	22.1	13.9	17.3	23.8	15.4	10.8	15.3	9.3	21.8
17	12.9	14.4	33.2	21.6	13.9	17.6	23.8	15.1	10.2	14.8	9.0	25.2
18	11.3	12.9	33.2	21.7	13.8	17.8	23.7	14.6	9.8	14.4	9.0	27.2
19	10.2	11.8	33.1	22.0	13.6	17.7	23.6	14.1	9.4	14.0	8.9	28.5
20	9.4	10.8	32.7	22.3	13.5	17.5	23.7	13.7	9.1	13.8	8.8	29.3
21	8.9	10.0	32.1	22.5	13.4	17.3	23.9	13.5	8.7	13.7	8.9	29.7
22	8.6	9.4	31.3	22.4	13.3	17.0	24.0	13.6	8.3	13.7	9.5	30.1
23	8.5	9.0	30.5	22.0	13.3	16.7	23.8	13.9	8.0	13.8	10.3	30.5
24	8.6	8.8	29.6	21.2	13.1	16.4	23.5	14.5	7.6	14.0	10.9	30.9
25	8.8	8.7	28.6	20.1	12.8	16.1	23.3	14.9	7.2	14.4	11.4	31.3
26	9.4	9.1	27.4	19.2	12.7	16.1	23.2	15.0	7.0	14.7	11.6	31.6
27	9.9	10.0	26.2	18.3	13.0	16.2	23.1	15.2	6.9	14.7	11.7	31.7
28	11.2	12.0	24.7	17.3	14.3	16.2	22.9	15.3	7.4	14.5	12.1	31.5
29	12.8		23.5	16.4	16.2	16.3	22.7	15.5	8.7	14.1	12.9	31.0
30	14.1		23.7	15.9	17.6	16.6	22.4	15.6	9.7	13.4	14.1	29.9
31	16.4		25.0		19.0		21.9	15.9		12.5		28.6
<b>Means.</b>	15.9	18.3	27.5	24.4	15.3	17.6	23.3	16.4	11.6	14.4	10.0	24.2

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, NEW MADRID, MO.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	27.2	17.5	34.8	32.8	32.0	21.8	20.6	16.9	13.2	13.5	12.7	9.4
2.....	25.8	18.6	34.6	32.3	30.3	22.7	19.9	16.4	13.5	13.6	12.7	9.5
3.....	24.6	19.3	34.4	31.8	28.2	24.3	19.6	16.0	13.8	13.7	12.5	9.3
4.....	23.7	19.9	34.2	31.2	26.4	26.3	19.6	15.6	14.5	13.6	12.4	8.9
5.....	23.1	21.3	34.2	30.6	25.0	27.9	19.5	15.2	15.3	13.6	12.1	8.4
6.....	22.9	23.5	34.3	30.0	23.9	29.5	19.4	14.9	15.7	13.7	11.9	7.9
7.....	23.0	26.5	34.7	29.5	23.0	31.0	19.0	14.7	15.7	13.7	11.7	7.4
8.....	23.5	28.7	35.1	29.2	22.1	32.2	18.5	14.3	15.4	13.8	11.7	6.9
9.....	23.8	30.2	35.7	28.9	21.3	33.0	18.1	14.2	15.0	14.1	11.7	6.5
10.....	23.9	31.0	36.3	28.9	20.5	33.6	17.8	14.6	14.7	14.4	11.8	6.2
11.....	23.9	31.7	37.1	28.9	19.9	34.0	17.7	15.4	14.8	14.9	12.0	5.9
12.....	24.0	32.3	37.9	29.0	19.4	34.2	17.7	16.0	15.0	15.7	12.0	5.6
13.....	23.9	32.7	38.5	29.5	18.9	34.4	17.6	16.2	15.1	16.5	11.9	5.5
14.....	23.5	33.0	39.0	30.2	18.5	34.5	17.4	16.2	15.3	17.0	11.7	5.2
15.....	22.8	33.4	39.3	31.2	18.0	34.5	16.9	16.1	16.0	17.0	11.4	4.8
16.....	21.8	33.8	39.5	32.2	17.6	34.5	16.6	16.0	16.7	16.9	11.0	4.3
17.....	20.8	34.3	39.5	33.0	17.4	34.3	16.6	15.8	17.0	16.7	10.7	3.6
18.....	19.7	34.5	39.5	33.6	17.4	34.0	16.7	15.8	17.1	16.3	10.3	3.1
19.....	18.8	34.6	39.4	34.0	17.8	33.4	17.2	15.6	17.3	15.9	10.0	3.0
20.....	18.2	34.4	39.3	34.4	18.6	32.4	17.9	15.3	17.1	15.5	9.8	2.9
21.....	17.7	34.2	39.1	34.7	19.4	31.1	18.4	15.3	16.9	15.1	9.5	2.8
22.....	17.2	34.2	38.8	34.9	19.7	29.4	18.4	15.3	16.7	14.8	9.4	3.3
23.....	16.7	34.2	38.5	35.1	19.6	27.5	18.1	15.4	16.5	14.6	9.4	4.1
24.....	16.2	34.3	38.1	35.2	19.3	26.0	17.7	15.4	16.0	14.5	9.4	5.9
25.....	15.7	34.6	37.7	35.2	18.9	24.8	17.5	15.2	15.4	14.3	9.3	7.2
26.....	15.2	34.7	37.2	35.2	18.6	23.9	17.4	14.7	14.8	14.0	9.4	7.8
27.....	14.9	34.8	36.6	35.0	18.5	23.1	17.4	14.2	14.3	13.8	9.4	8.2
28.....	14.6	34.9	35.9	34.6	18.9	22.7	17.6	13.8	13.8	13.5	9.2	8.6
29.....	14.4	.....	35.1	34.1	20.0	22.1	17.9	13.5	13.5	13.3	8.9	9.1
30.....	14.8	.....	34.2	33.2	20.9	21.4	17.7	13.2	13.5	13.0	9.0	9.3
31.....	16.1	.....	33.4	.....	21.5	.....	17.3	13.1	.....	12.8	.....	9.3
<b>Means.</b>	<b>20.4</b>	<b>30.3</b>	<b>36.8</b>	<b>32.3</b>	<b>21.0</b>	<b>29.2</b>	<b>18.1</b>	<b>15.2</b>	<b>15.3</b>	<b>14.6</b>	<b>10.8</b>	<b>6.4</b>
<b>1904</b>												
1.....	9.3	24.0	17.9	36.4	31.8	19.7	19.4	14.0	9.7	9.6	6.8	4.6
2.....	9.4	24.4	17.9	37.2	32.3	20.6	20.0	13.4	9.1	9.8	7.1	4.5
3.....	9.7	24.3	17.8	37.8	32.6	21.8	20.6	12.9	8.6	10.1	7.4	4.4
4.....	9.9	23.7	17.9	38.3	32.9	23.2	20.6	12.4	8.1	10.2	7.5	4.3
5.....	9.8	22.7	18.1	38.5	33.2	24.3	20.3	12.0	7.8	10.0	7.5	4.3
6.....	9.6	21.3	18.4	38.6	33.5	25.0	20.0	11.6	7.6	9.8	7.4	4.2
7.....	9.3	19.8	18.6	38.6	33.5	25.7	19.8	11.4	7.6	9.5	7.3	4.1
8.....	8.7	18.3	19.2	38.3	33.3	26.6	19.5	11.1	7.6	8.9	7.2	4.1
9.....	8.5	17.1	20.3	37.9	32.7	27.3	19.3	10.8	7.6	8.4	7.1	4.1
10.....	8.4	16.3	21.8	37.5	32.0	27.6	19.5	10.4	7.4	8.0	7.0	4.0
11.....	8.2	16.0	23.6	37.1	31.0	27.6	20.3	10.1	7.1	7.6	6.9	4.2
12.....	7.9	16.5	25.2	36.7	30.0	27.4	21.7	9.8	6.9	7.3	6.8	4.4
13.....	7.4	17.3	26.5	36.4	28.9	26.8	23.1	9.5	6.9	7.0	6.8	4.6
14.....	7.0	17.7	27.4	36.1	27.8	26.1	23.9	9.2	6.8	6.7	6.8	4.9
15.....	6.8	18.2	28.2	35.8	26.7	25.2	24.2	9.1	6.8	6.5	6.7	5.0
16.....	6.5	18.7	28.7	35.2	25.7	24.3	24.2	9.1	6.8	6.3	6.7	5.0
17.....	6.4	19.3	29.0	34.4	24.7	23.5	24.0	9.2	6.6	6.1	6.6	4.7
18.....	6.5	19.9	29.1	33.3	23.7	23.1	23.5	9.1	6.5	5.9	6.5	4.3
19.....	6.6	20.2	29.0	31.8	22.8	22.8	22.8	9.0	6.4	5.8	6.4	3.8
20.....	6.7	20.0	28.8	30.4	22.2	22.7	22.1	9.2	6.5	5.7	6.2	3.5
21.....	7.0	19.5	28.4	29.2	21.8	22.6	21.6	9.3	7.7	5.7	6.1	3.1
22.....	7.8	18.6	27.7	28.0	21.5	22.3	21.1	9.5	8.7	5.6	6.0	2.7
23.....	9.2	17.8	27.0	26.8	21.1	22.1	20.6	10.0	9.2	5.6	5.8	2.5
24.....	11.6	17.2	26.5	26.2	20.6	22.0	19.9	10.6	9.6	5.5	5.6	2.5
25.....	14.8	16.9	26.8	26.0	20.0	21.8	19.0	10.7	9.7	5.5	5.4	2.4
26.....	18.8	16.9	28.7	26.6	19.4	21.3	18.2	10.9	9.3	5.5	5.2	2.3
27.....	21.3	17.3	31.4	27.8	18.8	20.8	17.6	11.0	9.0	5.7	5.1	2.5
28.....	22.4	17.6	32.9	29.2	18.4	20.1	17.0	11.0	8.8	5.9	5.0	2.9
29.....	23.1	17.8	34.0	30.2	18.3	19.5	16.4	11.0	9.1	6.0	4.8	4.5
30.....	23.6	.....	34.8	31.1	18.7	19.2	15.7	10.8	9.4	6.3	4.7	7.3
31.....	23.9	.....	35.7	.....	19.2	.....	14.8	10.3	.....	6.5	.....	9.1
<b>Means.</b>	<b>11.2</b>	<b>19.1</b>	<b>25.7</b>	<b>33.6</b>	<b>26.1</b>	<b>23.4</b>	<b>20.3</b>	<b>10.6</b>	<b>8.0</b>	<b>7.2</b>	<b>6.4</b>	<b>4.2</b>

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, LUXORA, ARK.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.									4.9	3.8	1.3	-0.1
2.									4.8	4.3	1.6	-0.3
3.									4.6	4.5	1.9	-0.4
4.									4.5	4.6	2.0	-0.4
5.									4.4	4.7	2.2	-0.5
6.									4.2	4.5	2.2	-0.6
7.									4.0	4.3	2.1	-0.6
8.									3.7	4.0	2.0	-0.7
9.									3.4	3.7	1.9	-0.8
10.									3.0	3.4	1.8	-0.8
11.									2.8	3.1	1.7	-0.8
12.									2.7	2.7	1.6	-0.7
13.									2.5	2.4	1.6	-0.6
14.									2.3	2.2	1.5	-0.7
15.									2.2	2.0	1.5	-0.5
16.									2.2	1.8	1.5	-0.3
17.									2.2	1.6	1.4	-0.1
18.									2.2	1.4	1.3	-0.1
19.									2.0	1.2	1.2	-0.3
20.									1.8	1.1	1.1	-0.6
21.									2.6	1.0	0.9	-1.0
22.									2.9	0.9	0.8	-1.6
23.									3.5	0.9	0.7	-1.9
24.									3.6	0.8	0.6	-2.0
25.									3.7	0.8	0.5	-1.9
26.									3.9	0.8	0.4	-1.7
27.									4.0	0.8	0.4	-1.5
28.									3.7	0.9	0.3	-1.2
29.									3.0	1.0	0.2	-1.0
30.									3.6	1.1	0.1	-0.2
31.										1.2		1.6
Means.									3.3	2.3	1.3	-0.7

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, MEMPHIS, TENN.

1900												
1.	10.6	16.1	20.9	24.5	22.1	8.8	22.5	10.2	4.6	3.0	5.6	20.1
2.	10.3	15.3	20.0	23.9	21.4	8.8	23.2	10.5	4.5	3.0	5.7	20.9
3.	9.5	14.2	19.3	23.2	20.3	8.9	23.6	10.8	4.5	3.1	5.8	21.9
4.	8.4	13.0	18.8	22.2	19.5	9.2	23.6	11.0	4.6	3.3	5.8	22.8
5.	7.3	11.4	18.3	21.0	18.5	9.6	23.3	11.1	4.8	3.5	6.5	23.5
6.	6.7	10.0	18.1	20.0	17.3	10.0	22.7	11.2	5.1	3.9	6.4	24.0
7.	5.2	8.6	18.0	19.2	15.5	10.5	21.6	11.0	5.4	4.3	6.4	24.1
8.	4.7	7.6	18.0	18.5	14.7	11.6	20.3	10.6	5.4	4.8	6.3	23.7
9.	3.9	7.0	18.3	18.0	14.0	12.6	18.8	10.0	5.3	5.0	6.3	22.9
10.	3.3	6.7	19.8	17.6	13.4	13.3	17.3	9.4	5.3	5.3	6.3	21.6
11.	3.6	7.1	23.1	17.9	13.1	13.8	15.7	8.7	5.1	5.5	6.5	20.2
12.	3.6	9.5	24.2	17.9	12.7	14.0	14.1	8.3	4.9	5.7	6.7	18.5
13.	3.5	12.6	25.7	17.9	12.4	14.0	12.8	7.4	4.5	5.9	6.6	16.9
14.	3.4	15.5	26.7	17.8	12.1	13.9	11.6	6.6	4.1	6.2	6.5	15.5
15.	3.4	17.8	27.6	18.1	11.8	13.8	10.5	5.9	3.7	6.1	6.4	14.7
16.	3.8	19.4	28.2	18.6	11.5	15.1	10.0	5.2	3.4	5.9	6.3	14.0
17.	4.1	20.3	28.6	19.3	11.4	15.0	9.3	4.7	3.0	5.7	6.1	13.5
18.	5.6	21.0	29.1	19.7	11.3	16.0	8.8	4.1	2.6	5.6	5.9	13.0
19.	7.1	21.7	29.5	20.0	10.9	18.2	8.3	3.6	2.4	5.6	5.8	12.3
20.	8.5	22.2	29.5	19.7	10.4	18.8	7.8	3.2	2.3	5.5	5.7	11.7
21.	9.3	22.9	29.3	19.3	9.8	18.6	7.4	3.0	2.2	5.1	6.2	10.8
22.	10.1	23.3	29.0	19.2	9.4	18.1	7.0	2.8	2.1	4.9	6.5	9.8
23.	11.3	23.6	28.2	19.5	9.1	16.5	6.9	2.8	2.1	4.7	6.7	8.9
24.	12.9	23.6	27.2	20.3	9.0	16.3	6.8	3.0	2.0	4.4	7.8	8.0
25.	14.5	23.6	26.2	21.0	8.9	16.0	6.7	3.5	1.9	4.6	9.9	7.2
26.	15.7	23.2	25.0	21.6	8.7	16.3	7.0	4.0	2.1	4.7	12.2	6.6
27.	16.5	22.5	24.4	22.0	8.6	17.8	7.5	4.4	2.4	4.9	14.6	6.2
28.	17.0	21.8	24.1	22.3	8.5	19.0	8.5	4.5	2.7	5.1	16.6	6.0
29.	17.3		24.3	22.6	8.5	20.2	9.4	4.6	2.9	5.3	18.0	6.0
30.	17.1		24.5	22.6	8.6	21.4	10.0	4.6	3.0	5.4	19.1	5.6
31.	16.8		24.7		8.7		10.2	4.6		5.5		6.1
Means.	8.9	16.5	24.1	20.2	12.6	14.5	13.3	6.6	3.6	4.9	8.0	14.7

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, MEMPHIS, TENN.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	6.3	10.4	4.7	20.6	30.9	18.6	17.2	5.6	15.0	6.9	1.2	-0.2
2.....	6.5	9.7	4.5	21.0	31.2	19.6	18.0	5.4	13.9	6.2	1.1	-0.2
3.....	6.5	9.3	4.4	21.5	31.6	19.9	18.8	5.1	12.4	5.4	1.0	-0.1
4.....	6.5	9.2	4.3	22.3	31.8	19.9	19.2	4.9	11.0	4.8	1.0	0.0
5.....	6.5	9.0	4.2	23.2	32.0	19.7	19.2	4.7	9.7	4.3	0.8	0.1
6.....	6.5	9.2	4.0	24.3	32.1	19.4	18.6	4.6	8.6	3.9	0.8	0.2
7.....	6.6	9.8	3.7	25.2	32.1	19.4	17.6	4.5	7.7	3.5	0.7	0.2
8.....	6.8	10.8	3.6	25.9	32.0	19.7	17.0	4.4	7.1	3.1	0.6	0.2
9.....	6.8	11.9	3.5	26.3	31.7	19.9	15.0	4.2	6.6	2.8	0.5	0.6
10.....	7.0	12.8	3.8	26.7	31.3	19.9	13.7	3.9	6.1	2.6	0.4	1.2
11.....	7.0	13.3	4.1	27.1	30.4	19.6	12.6	3.7	5.9	2.4	0.3	1.7
12.....	7.0	13.5	4.7	27.5	28.7	19.2	11.6	3.5	5.7	2.4	0.2	2.0
13.....	6.5	13.4	6.3	28.0	26.5	18.6	11.0	3.3	5.5	2.5	0.1	2.2
14.....	6.3	13.0	9.0	28.5	23.5	17.9	10.6	3.0	5.5	2.4	0.1	2.7
15.....	6.6	12.6	12.9	28.8	20.4	17.2	10.3	2.9	5.4	2.6	0.1	2.8
16.....	7.8	12.1	17.5	28.9	17.5	16.4	10.0	3.1	5.0	2.8	0.1	3.2
17.....	9.7	11.5	20.8	28.9	15.4	15.9	9.5	4.0	4.6	3.0	0.1	4.3
18.....	11.8	10.8	22.3	28.9	14.1	15.5	9.0	4.6	4.3	2.8	0.0	6.3
19.....	14.0	10.1	23.1	28.7	13.3	15.2	8.8	5.0	4.5	2.5	0.0	7.7
20.....	15.4	9.7	23.6	28.5	12.8	14.9	8.5	5.7	4.6	2.2	0.0	8.9
21.....	16.7	8.7	23.7	28.3	12.5	14.7	8.1	7.0	4.9	2.0	-0.1	10.6
22.....	17.8	8.1	23.8	28.2	12.4	14.1	7.9	9.1	5.5	2.0	-0.1	12.5
23.....	18.5	7.6	23.8	28.1	12.3	13.6	7.5	11.0	6.1	1.9	0.0	14.5
24.....	18.8	7.2	23.6	28.1	12.4	13.1	7.2	12.7	6.7	2.0	-0.1	16.2
25.....	17.2	6.6	23.4	28.2	12.6	12.9	6.9	13.9	7.3	1.9	-0.1	17.6
26.....	16.3	6.0	23.2	28.5	12.6	13.2	6.8	15.0	7.9	1.9	-0.1	18.2
27.....	14.9	5.5	22.8	29.0	12.8	14.0	6.6	15.8	8.4	1.8	-0.1	17.9
28.....	13.6	5.1	22.5	29.5	13.4	15.0	6.4	16.4	8.5	1.8	-0.1	17.1
29.....	12.7	.....	22.0	30.0	14.3	15.9	6.1	16.7	8.2	1.6	-0.2	15.8
30.....	11.8	.....	21.5	30.5	15.8	16.6	5.9	.....	7.6	1.4	-0.2	14.3
31.....	11.1	.....	20.9	.....	17.9	.....	5.8	15.9	.....	1.3	.....	12.7
<b>Means.</b>	10.6	9.9	14.1	27.0	21.6	17.0	11.3	7.3	7.3	2.9	0.3	6.8
<b>1902</b>												
1.....	11.4	10.8	6.6	23.3	12.4	13.6	12.6	19.6	11.3	4.4	8.6	8.4
2.....	10.7	13.4	8.2	23.9	11.9	14.9	13.0	19.0	11.7	5.3	7.8	9.5
3.....	10.7	16.2	10.0	24.7	11.9	15.5	14.0	18.3	12.0	6.4	7.0	10.7
4.....	11.7	18.9	11.9	25.8	12.5	15.7	15.2	18.0	12.1	7.7	6.4	11.7
5.....	13.4	21.0	14.3	27.0	13.0	15.6	17.0	17.4	11.9	8.3	5.9	12.7
6.....	15.5	22.5	16.9	27.8	13.4	15.4	19.0	16.7	11.5	8.8	5.4	13.5
7.....	17.6	23.7	19.5	28.5	13.9	15.4	20.5	16.0	11.2	9.3	4.9	13.9
8.....	19.3	24.5	21.7	29.0	14.4	15.3	21.7	15.2	11.1	9.8	4.6	14.4
9.....	20.5	25.0	23.4	29.2	14.6	15.1	22.2	14.5	11.2	10.2	4.3	15.2
10.....	21.0	25.4	24.7	29.6	14.5	14.7	22.3	14.0	11.1	10.5	4.0	16.0
11.....	21.0	25.5	25.7	29.4	13.7	14.2	22.2	13.6	10.8	11.1	4.0	16.5
12.....	20.9	25.2	26.9	29.3	12.7	13.6	22.1	13.2	10.2	11.8	4.1	16.7
13.....	20.2	24.4	27.7	28.8	11.6	13.1	21.8	12.9	9.5	12.5	4.2	16.6
14.....	19.0	22.7	28.4	27.8	10.8	12.8	21.6	12.6	8.7	12.8	4.5	16.2
15.....	17.4	20.4	29.0	26.3	10.2	12.8	21.2	12.2	8.0	12.4	4.8	16.8
16.....	15.3	18.8	29.5	24.2	9.9	13.0	21.0	11.9	7.5	11.9	4.9	17.6
17.....	12.8	15.0	30.0	22.0	9.8	13.1	20.8	11.7	6.9	11.4	4.9	19.2
18.....	10.4	12.5	30.3	20.3	9.8	13.3	20.7	11.1	6.5	10.8	4.7	22.0
19.....	8.3	10.5	30.5	19.2	9.7	13.7	20.7	10.7	6.0	10.1	4.5	24.0
20.....	6.7	9.0	30.8	18.9	9.5	13.8	20.6	10.2	5.4	9.8	4.4	25.4
21.....	5.7	8.0	30.8	18.9	9.4	13.7	20.6	9.7	5.1	9.4	4.4	26.7
22.....	4.9	7.0	30.7	19.1	9.3	13.4	20.7	9.4	4.3	9.2	4.3	27.5
23.....	4.4	6.2	30.6	19.1	9.1	13.1	20.8	9.3	4.5	9.1	4.5	28.0
24.....	4.2	5.8	30.0	18.9	9.0	12.8	20.8	9.3	4.1	9.1	5.0	28.6
25.....	4.0	5.4	29.4	18.3	9.0	12.5	20.6	9.6	3.8	9.1	5.8	29.0
26.....	4.7	5.1	28.6	17.5	8.8	12.2	20.4	10.1	3.5	9.4	6.5	29.4
27.....	5.0	5.1	28.0	16.4	8.6	11.9	20.2	10.4	3.2	9.8	6.8	29.7
28.....	5.5	5.6	26.9	15.4	8.5	11.8	20.0	10.8	3.0	10.0	7.0	29.9
29.....	6.2	.....	25.7	14.9	9.0	12.3	19.9	11.0	3.0	10.0	7.2	30.0
30.....	7.6	.....	24.5	13.3	10.3	12.6	19.7	11.0	3.4	9.7	7.5	30.0
31.....	9.1	.....	23.7	.....	12.0	.....	19.4	11.1	.....	9.3	.....	29.5
<b>Means.</b>	11.8	15.5	24.4	22.9	11.1	13.7	19.8	12.9	7.8	9.7	5.4	20.5

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, MEMPHIS, TENN.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	28.8	10.8	34.0	36.0	34.2	18.6	20.7	14.3	9.7	9.9	9.3	5.5
2.....	28.0	12.0	34.2	35.2	33.8	19.0	19.7	13.9	9.6	9.9	9.3	5.7
3.....	28.7	13.4	34.3	34.6	33.3	19.7	18.7	13.5	9.7	9.9	9.1	5.9
4.....	25.1	14.9	34.3	34.0	31.7	21.0	18.0	13.0	9.9	9.9	9.0	6.0
5.....	23.6	15.8	34.4	33.3	29.6	22.7	17.7	12.6	10.3	10.0	8.9	5.8
6.....	22.3	16.8	34.3	32.5	27.7	24.6	17.5	12.2	11.0	10.0	8.8	5.4
7.....	21.4	18.6	34.3	31.6	25.8	26.0	16.4	11.8	11.7	10.0	8.7	5.0
8.....	20.7	21.3	34.5	30.8	23.8	27.5	16.1	11.5	12.1	10.0	8.5	4.6
9.....	20.6	21.9	34.6	30.1	22.0	28.6	15.7	11.2	12.0	10.0	8.3	4.1
10.....	20.7	25.8	34.7	29.4	20.6	29.7	15.2	11.0	11.7	10.1	8.2	3.9
11.....	20.9	27.1	35.2	28.2	19.3	30.6	14.8	11.0	11.4	10.4	8.2	3.5
12.....	21.2	28.2	35.6	27.5	18.3	31.0	14.5	11.5	11.2	10.7	8.4	3.3
13.....	21.3	29.0	36.1	27.5	17.5	31.5	14.5	12.1	11.3	11.4	8.5	3.1
14.....	21.2	29.6	36.8	27.5	17.0	31.9	14.4	12.5	11.4	12.1	8.5	2.9
15.....	20.9	30.1	37.9	27.6	16.6	32.3	14.2	12.7	11.5	12.8	8.3	2.6
16.....	20.4	30.8	39.1	27.1	16.0	32.5	14.0	12.8	11.9	13.2	8.1	2.4
17.....	19.5	31.4	39.4	26.7	15.5	32.8	13.7	12.7	12.6	13.2	7.9	2.1
18.....	18.5	31.8	39.6	26.3	14.9	33.0	13.5	12.5	13.0	13.1	7.5	1.8
19.....	17.2	32.3	40.0	26.2	14.7	33.0	13.4	12.4	13.3	12.9	7.2	1.3
20.....	16.1	32.6	40.1	25.7	14.8	33.0	13.6	12.3	13.5	12.5	6.9	1.3
21.....	15.1	32.9	39.8	25.0	15.4	32.7	14.1	12.1	13.5	12.1	6.6	1.1
22.....	14.2	33.1	39.6	24.7	16.1	32.1	14.8	11.9	13.4	11.7	6.3	1.0
23.....	13.6	33.2	39.5	24.0	16.7	31.3	15.1	11.8	13.2	11.3	6.1	1.0
24.....	13.0	33.3	39.4	23.2	16.8	30.7	15.0	11.9	13.0	11.0	6.0	1.3
25.....	12.5	33.3	39.1	23.5	16.7	31.9	14.7	11.9	12.7	10.8	6.0	1.9
26.....	11.9	33.4	38.8	23.9	16.4	32.1	14.4	11.8	12.3	10.6	6.0	3.0
27.....	11.4	33.6	38.5	24.0	16.0	34.3	14.2	11.6	11.7	10.4	6.0	3.9
28.....	11.1	33.9	38.2	24.3	15.8	33.6	14.1	11.2	11.1	10.2	6.0	4.5
29.....	10.7	37.6	34.3	15.9	15.9	32.5	14.1	10.7	10.5	10.0	5.9	4.8
30.....	10.4	37.1	34.4	16.7	16.7	31.6	14.3	10.2	10.1	9.7	5.7	5.2
31.....	10.4	36.7	34.7	17.7	17.7	30.7	14.7	9.9	9.5	9.5	5.6	5.6
<b>Means.</b>	<b>18.4</b>	<b>26.5</b>	<b>37.0</b>	<b>31.9</b>	<b>20.2</b>	<b>27.7</b>	<b>15.3</b>	<b>12.0</b>	<b>11.7</b>	<b>10.9</b>	<b>7.6</b>	<b>3.5</b>
<b>1904</b>												
1.....	5.8	20.4	13.9	12.1	12.8	15.7	16.7	12.5	7.7	6.2	3.6	2.8
2.....	5.6	20.7	14.1	12.1	12.5	16.2	16.5	11.7	7.2	6.4	3.6	2.6
3.....	5.9	20.6	14.2	12.4	12.9	16.9	16.8	10.9	6.7	6.6	4.2	2.3
4.....	5.9	21.0	14.1	12.0	13.5	17.0	17.3	10.3	6.2	6.8	4.5	2.1
5.....	6.1	20.6	14.1	12.7	13.0	17.6	17.9	9.9	5.9	7.0	4.7	2.0
6.....	6.2	20.2	14.3	12.5	13.1	17.0	17.9	9.4	5.4	7.2	5.0	2.0
7.....	6.1	19.2	14.3	12.8	13.8	17.1	17.5	9.6	5.2	6.9	5.0	1.9
8.....	5.9	17.9	14.6	12.9	13.9	17.0	17.0	9.7	5.0	6.7	4.6	1.9
9.....	5.5	16.1	15.2	12.6	14.0	16.7	16.7	9.4	4.9	6.3	4.9	1.8
10.....	5.2	14.6	16.0	12.5	14.8	16.7	16.7	9.1	4.9	5.9	4.6	1.6
11.....	5.0	13.2	17.3	12.0	15.0	16.8	16.8	8.6	4.9	5.5	4.7	1.6
12.....	4.8	12.4	19.1	12.5	15.5	17.3	17.3	8.3	4.7	5.1	4.6	1.6
13.....	4.7	12.2	19.0	12.8	15.7	17.6	17.6	8.2	4.5	4.8	4.5	1.6
14.....	4.4	12.6	19.5	12.4	15.6	17.7	17.7	8.0	4.4	4.4	4.5	2.0
15.....	4.1	13.3	19.8	12.2	15.9	17.8	17.8	8.1	4.3	4.2	4.4	2.2
16.....	3.9	13.9	19.6	12.3	15.9	17.8	17.8	8.5	4.2	4.0	4.4	2.4
17.....	3.5	14.4	19.3	12.2	15.9	17.9	17.9	8.4	4.2	3.9	4.4	2.5
18.....	3.2	15.0	19.3	12.1	15.9	17.9	17.9	8.4	4.1	3.8	4.3	2.4
19.....	3.1	15.8	19.5	12.1	15.9	17.9	17.9	8.4	4.0	3.4	4.2	2.2
20.....	3.1	16.3	19.7	12.1	15.9	17.9	17.9	8.3	3.9	3.3	4.2	1.9
21.....	3.2	16.4	19.7	12.1	15.9	17.9	17.9	8.4	3.8	3.2	4.1	1.6
22.....	3.1	16.7	19.7	12.1	15.9	17.9	17.9	8.5	3.7	3.1	3.9	1.3
23.....	4.1	15.5	19.5	12.3	15.9	17.9	17.9	8.6	3.6	3.0	3.8	1.0
24.....	4.1	14.6	19.5	12.3	15.9	17.9	17.9	8.7	3.5	2.9	3.5	0.7
25.....	3.9	13.5	19.5	12.3	15.9	17.9	17.9	8.8	3.4	2.8	3.4	0.6
26.....	3.9	13.3	19.5	12.3	15.9	17.9	17.9	8.9	3.3	2.7	3.3	1.6
27.....	3.9	13.3	19.5	12.3	15.9	17.9	17.9	9.0	3.2	2.6	3.2	1.6
28.....	3.9	13.3	19.5	12.3	15.9	17.9	17.9	9.1	3.1	2.5	3.1	1.6
29.....	3.9	13.3	19.5	12.3	15.9	17.9	17.9	9.2	3.0	2.4	3.0	1.6
30.....	3.9	13.3	19.5	12.3	15.9	17.9	17.9	9.3	2.9	2.3	2.9	1.6
31.....	3.9	13.3	19.5	12.3	15.9	17.9	17.9	9.4	2.8	2.2	2.8	1.6
<b>Means.</b>	<b>6.9</b>	<b>15.9</b>	<b>19.7</b>	<b>14.0</b>	<b>15.7</b>	<b>17.7</b>	<b>17.0</b>	<b>8.0</b>	<b>5.3</b>	<b>4.6</b>	<b>4.1</b>	<b>1.9</b>

## DESCRIPTION OF RIVER GAGES, ETC.

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## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, HELENA, ARK.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	16.1	23.5	30.1	33.8	31.4	15.7	29.9	16.3	8.5	6.3	9.4	26.0
2.....	15.9	22.8	29.2	33.7	31.0	15.7	30.9	16.5	8.5	6.4	9.5	27.2
3.....	15.5	21.9	28.3	33.3	30.4	15.8	31.7	16.7	8.4	6.3	9.6	28.3
4.....	14.6	20.8	27.4	32.6	29.4	16.0	32.1	17.1	8.4	6.4	10.0	29.1
5.....	13.4	19.4	26.8	31.5	28.3	16.5	32.3	17.4	8.5	6.7	10.4	30.1
6.....	12.1	17.8	26.2	30.3	26.9	17.1	32.1	17.6	8.9	7.1	10.6	31.0
7.....	10.6	16.0	26.1	29.1	25.8	17.8	31.5	17.6	9.2	7.6	10.7	31.6
8.....	9.1	14.5	25.9	28.0	24.7	18.5	30.5	17.4	9.5	8.0	10.6	31.8
9.....	7.6	13.2	25.8	27.1	23.6	19.5	29.3	17.0	9.7	8.6	10.5	31.4
10.....	7.3	12.3	26.2	26.3	22.8	20.6	27.7	16.4	9.6	9.2	10.5	30.9
11.....	6.8	11.7	27.8	26.0	22.0	21.4	25.9	15.5	9.5	9.4	10.6	29.8
12.....	6.6	12.2	30.0	25.7	21.4	21.9	24.0	14.6	9.3	9.7	10.7	28.4
13.....	6.6	15.0	32.1	25.9	21.0	22.2	22.1	13.8	8.9	10.0	10.9	26.3
14.....	6.5	18.4	33.7	25.9	20.5	22.3	20.4	12.9	8.5	10.3	11.0	24.5
15.....	6.4	21.7	34.8	25.8	20.1	23.1	18.8	11.8	7.9	10.6	11.0	23.3
16.....	6.7	24.4	35.7	26.1	19.8	23.7	17.7	10.8	7.5	10.6	10.7	21.8
17.....	6.7	26.2	36.4	26.6	19.4	23.9	16.6	9.9	6.9	10.3	10.5	21.0
18.....	7.5	27.4	37.0	27.1	19.2	24.0	15.7	9.0	6.4	10.0	10.3	20.3
19.....	9.1	28.4	37.6	27.8	19.0	23.9	14.8	8.1	5.9	9.9	10.0	19.7
20.....	11.1	29.1	37.9	28.0	18.5	26.1	14.1	7.6	5.5	9.9	9.9	19.1
21.....	12.8	30.0	38.1	27.8	17.9	26.8	13.5	6.9	5.4	9.7	10.1	18.1
22.....	13.9	30.6	38.1	27.6	17.2	26.7	13.1	6.5	5.3	9.5	10.5	17.0
23.....	15.3	31.1	38.0	27.5	16.7	26.2	12.7	6.3	5.1	9.1	10.9	15.7
24.....	16.7	31.5	37.6	27.6	16.3	25.4	12.3	6.2	5.0	8.7	11.2	14.6
25.....	18.6	31.6	37.0	28.5	16.1	24.7	12.1	6.5	4.8	8.4	12.7	13.4
26.....	20.4	31.6	36.1	29.3	15.8	24.6	12.1	7.1	4.8	8.2	15.2	12.2
27.....	21.9	31.3	35.2	30.0	15.7	25.2	12.4	7.8	5.0	8.3	18.0	11.3
28.....	23.0	30.8	34.4	30.5	15.5	26.2	13.1	8.2	5.4	8.5	20.8	11.0
29.....	23.6		33.9	31.1	15.4	27.4	14.3	8.4	5.8	8.7	22.9	10.5
30.....	23.9		33.7	31.3	15.5	28.7	15.2	8.6	6.2	9.0	24.6	10.5
31.....	23.8		33.8		15.5		16.0	8.6		9.2		10.3
<b>Means.</b>	13.2	23.0	32.6	28.7	21.1	22.3	20.8	11.8	7.3	8.7	12.1	21.8
<b>1901</b>												
1.....	10.2	17.5	10.0	29.3	39.5	24.2	23.8	10.2	22.8	12.6	3.8	1.5
2.....	10.7	16.6	9.5	29.1	39.8	25.9	24.6	9.9	21.8	11.8	3.6	1.4
3.....	10.9	16.0	9.1	29.3	40.3	27.0	25.5	9.6	20.7	10.9	3.5	1.5
4.....	11.0	15.5	8.9	29.6	40.5	27.6	26.3	9.2	19.2	10.1	3.4	1.6
5.....	11.0	15.3	8.7	30.3	40.9	27.7	26.8	8.9	17.6	9.2	3.3	1.6
6.....	11.1	15.0	8.5	31.3	41.2	27.5	26.8	8.6	15.9	8.6	3.2	2.0
7.....	11.1	15.1	8.3	32.4	41.4	27.4	26.3	8.5	14.4	8.1	3.1	2.1
8.....	11.2	15.7	7.9	33.3	41.5	27.4	25.5	8.4	13.1	7.4	2.9	2.2
9.....	11.3	16.8	7.7	34.0	41.6	27.6	24.2	8.3	12.2	7.1	2.8	2.3
10.....	11.5	18.1	7.6	34.6	41.5	28.0	22.7	8.1	11.5	6.4	2.6	2.8
11.....	11.6	19.0	8.2	35.1	41.3	27.9	21.0	7.8	11.0	5.9	2.4	3.5
12.....	11.8	19.7	8.7	35.6	40.6	27.7	19.6	7.4	10.6	5.7	2.3	4.2
13.....	11.6	20.1	9.4	36.1	39.9	27.2	18.4	7.3	10.3	5.6	2.2	4.8
14.....	11.3	19.9	11.8	36.5	38.3	26.7	17.4	6.9	10.1	5.5	2.1	5.1
15.....	11.0	19.6	14.4	37.1	35.8	25.9	16.8	6.7	10.1	5.4	2.0	5.6
16.....	11.4	19.1	19.0	37.3	32.7	25.1	16.3	6.4	10.0	5.8	1.9	6.1
17.....	12.7	18.6	23.8	37.6	29.8	24.3	15.8	7.1	9.7	5.9	1.9	6.7
18.....	15.0	18.0	26.8	37.9	25.7	23.5	15.3	7.8	9.0	6.1	1.8	8.2
19.....	17.3	17.2	29.0	38.1	23.1	23.1	14.8	8.4	8.7	6.0	2.0	10.2
20.....	19.3	16.3	30.2	38.1	21.2	22.7	14.3	9.1	8.7	5.6	1.9	11.9
21.....	20.9	15.5	30.9	38.0	19.9	22.3	13.9	9.9	8.8	5.2	1.8	13.4
22.....	22.2	14.8	31.3	37.9	19.0	21.8	13.5	11.6	9.2	5.0	1.7	15.6
23.....	23.4	13.9	31.4	37.8	18.4	21.3	13.0	13.9	9.8	4.9	1.8	17.9
24.....	24.3	13.3	31.7	37.7	18.1	20.6	12.6	16.5	10.6	4.8	1.7	20.1
25.....	24.7	12.7	31.6	37.8	18.1	20.1	12.1	18.5	11.3	4.8	1.6	22.0
26.....	24.3	11.9	31.6	37.9	18.2	19.8	11.8	20.1	12.1	4.8	1.6	23.3
27.....	23.2	11.3	31.4	38.1	18.3	20.0	11.6	21.2	12.9	4.7	1.6	24.1
28.....	21.8	10.6	31.1	38.4	18.6	20.9	11.3	22.1	13.4	4.6	1.6	24.6
29.....	20.5		30.8	38.7	19.3	21.9	11.0	22.8	13.6	4.4	1.5	23.4
30.....	19.4		30.2	39.1	20.4	23.0	10.6	23.4	13.2	4.2	1.5	22.1
31.....	18.5		29.8		22.0		10.4	23.3		4.1		20.6
<b>Means.</b>	15.7	16.2	19.7	35.5	30.5	24.5	17.9	11.9	12.7	6.5	2.3	10.1

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, HELENA, ARK.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	19.1	14.8	10.6	34.3	20.4	18.2	19.1	27.8	17.0	6.9	14.6	11.3
2.....	17.4	16.9	11.8	33.7	19.1	20.0	19.1	27.6	17.2	7.2	13.8	10.9
3.....	16.4	19.5	13.7	33.7	18.6	21.3	19.5	27.0	17.5	7.5	12.9	14.6
4.....	16.4	22.6	15.8	34.1	18.4	22.1	20.4	26.3	17.9	10.8	11.9	16.1
5.....	17.7	25.3	18.1	34.9	18.9	22.4	22.0	25.8	18.0	12.5	11.1	17.3
6.....	19.1	27.3	20.5	35.7	19.4	22.5	23.9	24.8	17.9	13.2	10.2	18.5
7.....	21.3	29.3	23.4	36.7	19.9	22.5	25.8	24.2	17.4	13.8	9.7	19.3
8.....	23.8	30.7	26.1	37.1	20.5	22.4	27.4	23.3	17.1	14.5	9.1	19.9
9.....	25.6	31.7	28.4	37.7	21.1	22.3	28.6	22.6	17.0	15.1	8.6	20.5
10.....	26.8	32.3	30.3	38.2	21.3	22.1	29.4	21.6	17.1	15.5	8.2	21.4
11.....	27.6	32.8	31.9	38.4	21.1	21.7	29.8	21.0	17.0	16.1	7.8	22.2
12.....	27.9	33.0	33.3	38.6	20.5	21.1	30.0	20.4	17.0	16.9	7.6	22.8
13.....	27.7	32.8	34.3	38.6	19.5	20.5	29.8	19.8	16.1	17.6	7.8	23.1
14.....	27.1	32.2	35.2	38.4	19.3	19.9	29.7	19.3	15.1	18.3	8.0	23.2
15.....	26.0	30.8	36.2	37.8	17.2	19.5	29.4	19.1	14.1	18.6	8.3	23.3
16.....	24.2	28.6	36.8	36.8	16.3	19.4	29.1	18.7	13.1	18.3	8.7	24.3
17.....	22.1	25.8	37.3	35.1	15.9	19.5	28.7	18.2	12.3	17.9	9.1	25.2
18.....	19.4	22.8	37.9	33.0	15.5	19.7	28.6	17.7	11.8	17.3	8.9	27.1
19.....	16.6	19.9	38.3	31.0	15.5	20.0	28.4	17.2	11.0	16.5	8.7	29.4
20.....	14.1	17.4	38.7	29.5	15.4	20.2	28.4	16.8	10.4	15.8	8.4	31.5
21.....	12.1	15.4	39.2	28.4	15.1	20.4	28.4	16.0	9.8	15.3	8.3	33.3
22.....	10.5	13.9	39.5	27.8	15.0	20.2	28.4	15.3	9.2	14.8	8.0	34.5
23.....	9.3	12.7	39.6	27.7	14.8	20.0	28.5	15.0	8.8	14.6	8.0	35.4
24.....	8.6	11.9	39.6	27.7	14.6	19.6	28.6	14.8	8.4	14.4	8.0	36.1
25.....	8.1	11.0	39.3	27.0	14.5	19.4	28.6	14.7	8.0	14.3	9.1	36.7
26.....	7.9	10.4	39.0	26.3	14.1	19.0	28.5	15.1	7.3	14.4	10.0	37.3
27.....	8.2	10.1	38.9	25.3	14.1	18.5	28.3	15.5	7.1	14.7	10.7	37.7
28.....	9.3	10.0	38.5	24.1	13.9	18.2	28.0	16.1	6.6	15.1	11.3	38.2
29.....	10.1	.....	37.7	22.9	13.8	18.5	27.8	16.4	6.4	15.3	11.6	38.5
30.....	11.1	.....	36.5	21.6	13.7	18.9	27.6	16.7	6.3	15.4	11.8	38.8
31.....	12.8	.....	35.4	.....	16.2	.....	27.4	16.9	.....	15.1	.....	38.8
Means.	17.6	22.2	31.7	32.4	17.2	20.3	27.0	19.7	13.0	14.6	9.7	26.7
<b>1903</b>												
1.....	38.8	16.9	43.8	49.9	44.4	25.7	30.9	20.9	15.1	15.3	14.3	9.0
2.....	38.7	17.4	44.0	49.5	44.4	26.7	29.3	20.7	14.7	15.0	14.1	8.8
3.....	38.1	18.8	44.1	48.9	44.2	27.4	27.7	20.2	14.6	15.0	14.0	8.9
4.....	37.1	20.6	44.3	48.3	43.9	28.2	26.4	19.6	14.7	14.9	13.9	9.1
5.....	35.8	22.0	44.4	47.6	43.1	29.6	25.2	19.1	15.0	15.0	13.7	9.2
6.....	34.2	22.9	44.5	47.1	42.0	31.3	24.6	18.6	15.5	15.0	13.4	8.9
7.....	32.7	24.2	44.6	46.3	40.5	33.1	24.1	18.2	16.2	15.0	13.2	8.5
8.....	31.2	26.4	44.6	45.5	38.5	34.6	23.9	17.6	17.0	15.0	12.9	8.0
9.....	30.3	28.8	44.7	44.7	36.4	36.1	23.4	17.1	17.5	15.0	12.7	7.4
10.....	30.0	31.3	44.9	44.0	33.8	37.3	22.9	16.8	17.5	15.0	12.5	6.9
11.....	29.9	33.4	45.1	43.3	31.7	38.1	22.3	16.6	17.2	15.2	12.4	6.4
12.....	29.8	34.8	45.3	42.5	29.8	39.0	21.7	16.6	16.8	15.5	12.3	6.2
13.....	29.9	36.0	45.7	42.2	27.8	39.9	21.4	17.0	16.6	15.9	12.5	5.9
14.....	30.1	36.8	46.1	41.8	26.5	40.6	21.2	17.6	16.6	16.6	12.6	5.5
15.....	30.2	37.8	46.6	41.4	25.4	41.1	21.1	18.3	16.7	17.5	12.6	5.1
16.....	29.5	38.8	47.2	41.1	24.5	41.6	20.8	18.6	16.9	18.3	12.5	4.9
17.....	29.1	39.4	47.9	41.2	23.7	42.0	20.4	18.7	17.4	18.8	12.2	4.8
18.....	28.2	40.2	48.5	41.3	22.9	42.4	20.0	18.5	18.1	18.8	11.8	4.3
19.....	26.7	40.7	49.0	41.6	22.3	42.6	19.6	18.4	18.7	18.8	11.4	4.0
20.....	25.6	41.2	49.4	41.8	22.0	42.8	19.5	18.2	19.1	18.5	11.0	3.5
21.....	24.2	41.6	49.8	42.0	22.1	42.9	19.8	18.0	19.3	18.1	10.6	3.3
22.....	23.0	42.2	50.1	42.5	22.5	42.9	20.3	17.8	19.3	17.7	10.2	3.0
23.....	22.0	42.6	50.5	42.7	23.2	42.6	21.1	17.6	19.3	17.1	9.9	2.8
24.....	21.1	42.8	50.8	43.1	23.8	42.1	21.5	17.5	19.1	16.6	9.6	2.9
25.....	20.2	43.1	51.0	43.4	24.3	41.1	21.4	17.4	18.8	16.3	9.5	3.4
26.....	19.4	43.3	51.0	43.6	24.1	40.1	21.1	17.4	18.5	16.0	9.4	3.9
27.....	18.8	43.5	51.0	43.8	23.8	38.5	20.8	17.4	17.9	15.8	9.3	5.4
28.....	18.3	43.7	50.9	44.0	23.5	36.5	20.5	17.1	17.2	15.5	9.3	6.4
29.....	17.9	.....	50.7	44.2	23.1	34.5	20.2	16.6	16.5	15.2	9.3	7.1
30.....	17.4	.....	50.5	44.4	23.6	32.6	20.4	16.1	15.8	14.9	9.2	7.4
31.....	16.9	.....	50.3	.....	24.6	.....	20.7	15.5	.....	14.6	.....	8.1
Means.	27.6	34.0	47.5	44.1	29.9	37.1	22.4	17.9	17.1	16.2	11.7	6.1



## DESCRIPTION OF RIVER GAGES, ETC.

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## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, HELENA, ARK.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1904</b>												
1.....	8.4	26.0	19.4	39.4	38.5	22.3	24.9	19.5	11.9	9.3	5.7	4.4
2.....	8.7	26.6	19.8	40.2	38.8	22.0	24.2	18.6	11.6	9.5	5.9	4.3
3.....	8.9	27.1	20.0	41.0	39.2	22.7	23.8	17.5	11.1	9.7	6.2	4.2
4.....	8.9	27.3	20.1	41.7	39.6	23.7	24.0	16.5	10.4	10.0	6.5	4.1
5.....	9.0	27.5	20.1	42.4	40.0	25.6	24.6	15.7	9.7	10.1	6.8	4.0
6.....	9.2	27.3	20.3	43.1	40.5	27.1	25.0	15.0	9.2	10.5	7.0	3.8
7.....	9.4	26.7	20.5	43.8	41.0	28.7	25.0	14.2	8.8	10.6	7.2	3.7
8.....	9.7	25.6	20.7	44.6	41.3	29.8	24.7	13.6	8.4	10.4	7.2	3.7
9.....	9.1	24.0	21.1	45.5	41.6	30.9	24.4	13.1	8.1	10.1	7.1	3.6
10.....	8.6	22.5	21.5	46.2	41.8	31.9	24.2	12.8	8.1	9.7	7.0	3.5
11.....	8.3	20.7	22.5	46.8	42.0	32.8	24.1	12.5	8.1	9.2	6.8	3.4
12.....	8.0	19.1	23.8	47.2	41.9	33.6	24.1	12.1	8.0	8.6	6.7	3.4
13.....	7.7	18.1	26.0	47.5	41.7	34.1	24.5	11.6	7.8	8.1	6.6	3.4
14.....	7.4	17.8	27.8	47.6	41.2	34.3	25.6	11.2	7.5	7.7	6.5	3.4
15.....	7.2	18.1	29.4	47.7	40.6	34.3	27.3	10.8	7.3	7.4	6.4	3.6
16.....	6.7	18.7	30.9	47.6	39.8	34.0	28.6	10.6	7.1	7.1	6.3	3.8
17.....	6.3	19.4	32.0	47.5	38.8	33.4	29.4	10.3	7.1	6.8	6.2	4.0
18.....	5.9	20.1	33.1	47.3	37.5	32.6	29.8	10.1	7.0	6.5	6.1	4.2
19.....	5.6	20.8	33.7	47.1	35.8	31.6	29.9	10.1	7.0	6.2	6.1	4.1
20.....	5.4	21.6	34.3	46.8	33.9	30.8	29.7	10.0	6.9	6.1	6.1	4.0
21.....	5.5	22.3	34.6	46.3	32.1	29.9	29.3	9.9	6.7	5.9	6.1	3.6
22.....	6.0	22.4	34.9	45.6	30.5	29.4	28.6	10.0	6.7	5.7	5.9	3.2
23.....	6.3	22.2	35.1	44.7	28.8	29.1	27.9	10.1	7.0	5.6	5.8	2.7
24.....	6.9	21.5	34.9	43.6	27.8	28.7	27.1	10.2	7.9	5.5	5.5	2.5
25.....	7.7	20.8	34.5	42.5	26.9	28.3	26.4	10.5	8.7	5.4	5.4	2.4
26.....	9.2	20.1	34.4	41.3	26.1	27.9	25.6	11.0	9.5	5.4	5.3	2.3
27.....	12.3	19.4	34.4	40.0	25.2	27.6	24.5	11.4	10.1	5.3	5.1	2.9
28.....	16.7	19.1	34.9	39.1	24.3	27.2	23.6	11.7	10.1	5.3	4.9	3.6
29.....	20.9	19.1	36.2	38.4	23.7	26.6	22.4	11.9	9.7	5.3	4.7	3.8
30.....	23.5	.....	37.4	38.3	22.8	25.8	21.4	11.9	9.4	5.5	4.6	4.3
31.....	25.0	.....	38.4	.....	22.6	.....	20.5	11.9	.....	5.6	.....	4.5
<b>Means.</b>	<b>9.6</b>	<b>22.1</b>	<b>28.6</b>	<b>44.0</b>	<b>35.0</b>	<b>29.2</b>	<b>25.6</b>	<b>12.5</b>	<b>8.6</b>	<b>7.6</b>	<b>6.1</b>	<b>3.6</b>

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, ARKANSAS CITY, ARK.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	17.3	24.5	32.2	36.7	33.6	18.7	29.8	17.0	9.2	6.7	9.8	26.0
2.....	17.2	24.2	31.8	36.5	33.8	18.6	30.8	17.4	9.5	7.0	10.0	27.2
3.....	17.0	23.8	31.3	36.3	33.8	18.6	31.8	17.7	9.5	7.2	10.1	28.2
4.....	16.7	23.2	31.0	36.0	33.4	18.8	32.5	17.8	9.3	7.2	10.2	29.2
5.....	16.0	22.0	30.5	35.4	32.9	19.7	33.0	18.1	9.0	7.3	11.2	30.0
6.....	15.0	21.1	30.0	34.7	32.0	20.4	33.3	18.3	9.0	8.2	12.7	30.9
7.....	13.7	19.8	29.7	33.7	30.2	20.9	33.3	18.4	9.2	9.8	13.8	31.7
8.....	12.5	18.2	29.5	32.7	30.0	21.6	33.0	18.4	9.7	11.0	14.0	32.1
9.....	11.1	17.0	29.0	31.7	29.3	22.2	32.7	18.3	10.0	11.8	14.1	32.4
10.....	9.9	15.8	28.7	30.7	28.2	22.9	32.1	18.0	10.2	12.5	14.1	32.4
11.....	9.0	14.8	29.0	30.2	27.2	23.7	31.3	17.5	10.4	13.0	14.1	32.1
12.....	8.2	14.5	30.0	29.7	26.2	24.4	30.0	16.7	10.4	13.0	14.1	31.5
13.....	7.8	14.5	31.4	29.0	25.7	24.9	28.2	16.0	10.1	13.0	14.2	30.6
14.....	7.7	16.2	32.9	28.7	25.4	25.1	26.4	15.2	9.8	12.7	14.1	29.3
15.....	7.9	19.8	34.3	28.5	25.2	25.3	25.0	14.0	9.5	12.2	13.8	27.9
16.....	8.3	22.9	35.4	28.4	24.8	25.6	23.4	13.0	8.7	12.1	13.3	26.5
17.....	8.7	25.2	36.3	28.4	24.0	26.0	20.8	12.0	8.3	12.0	12.8	25.3
18.....	8.9	27.0	37.0	28.7	23.5	26.3	19.0	10.7	7.7	11.8	12.1	24.2
19.....	9.0	27.9	37.7	29.2	23.0	26.4	17.7	10.0	7.2	11.2	11.3	23.3
20.....	10.1	28.8	38.0	29.8	22.5	26.8	16.9	9.0	6.5	11.0	11.4	22.8
21.....	11.9	29.7	38.4	30.2	22.0	27.7	16.0	8.2	6.3	10.8	11.3	21.8
22.....	13.6	30.2	38.8	30.3	21.4	28.3	15.2	7.5	6.0	10.6	11.2	20.9
23.....	15.5	30.9	38.9	30.3	20.7	28.7	14.7	7.0	5.8	10.5	11.5	19.8
24.....	16.7	31.4	39.2	30.2	20.0	28.4	14.2	6.5	5.2	9.9	12.5	19.0
25.....	18.0	31.8	39.3	30.4	19.5	28.0	13.7	6.2	5.0	9.5	13.8	18.4
26.....	19.6	32.2	39.1	30.8	19.0	27.5	13.8	5.8	5.0	9.2	15.2	17.4
27.....	21.1	32.2	38.7	31.2	19.0	27.2	14.2	6.5	5.2	9.0	17.7	16.5
28.....	22.5	32.4	38.2	31.9	19.4	27.4	14.3	7.3	5.5	9.0	20.1	15.5
29.....	23.5	.....	37.7	32.6	19.3	28.0	14.6	8.0	5.8	9.0	22.6	14.6
30.....	24.0	.....	37.2	33.2	19.1	28.9	15.2	8.7	6.0	9.2	24.5	14.2
31.....	24.5	.....	36.9	.....	18.8	.....	16.5	8.8	.....	9.6	.....	13.4
<b>Means.</b>	<b>14.0</b>	<b>24.0</b>	<b>34.5</b>	<b>31.5</b>	<b>25.3</b>	<b>24.6</b>	<b>23.3</b>	<b>12.7</b>	<b>8.0</b>	<b>10.2</b>	<b>13.7</b>	<b>24.7</b>

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, ARKANSAS CITY, ARK.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	13.0	20.7	12.8	33.0	41.5	24.0	23.0	10.1	23.0	13.2	3.4	1.0
2.....	12.9	19.7	11.9	32.6	41.6	25.5	23.9	10.0	22.7	12.6	3.2	1.0
3.....	13.0	18.8	11.3	32.4	41.7	26.7	24.7	9.7	22.1	12.1	3.0	1.0
4.....	13.1	18.0	10.8	32.4	41.9	27.9	25.5	9.4	21.3	11.1	2.9	1.0
5.....	13.2	17.5	10.4	32.6	42.1	28.5	26.3	9.0	20.0	10.6	2.8	1.1
6.....	13.2	17.1	10.2	32.9	42.2	28.8	26.9	8.7	18.7	9.7	2.6	1.1
7.....	13.0	17.0	9.9	33.6	42.4	28.9	27.3	8.4	16.8	8.7	2.5	1.2
8.....	12.9	17.2	9.5	34.3	42.6	28.9	27.0	8.3	15.4	7.9	2.4	1.4
9.....	12.9	18.0	9.3	35.0	42.8	29.0	26.5	8.2	14.0	7.2	2.2	1.6
10.....	13.0	18.8	9.0	35.6	43.0	29.1	25.5	8.1	12.9	6.6	2.1	1.9
11.....	13.3	19.9	8.9	36.2	43.2	29.2	24.0	7.9	11.9	6.2	1.9	2.0
12.....	13.5	20.9	9.3	36.7	43.3	29.3	22.6	7.7	11.2	5.8	1.8	2.5
13.....	13.6	21.6	10.4	37.0	43.3	29.2	21.0	7.3	10.8	5.5	1.6	3.1
14.....	13.7	22.0	12.7	37.3	43.2	29.0	19.4	6.9	10.4	5.0	1.5	4.0
15.....	13.7	22.2	14.5	37.7	42.8	28.4	17.8	6.6	10.3	5.0	1.4	4.8
16.....	13.7	22.2	16.9	38.2	41.9	27.8	16.2	6.4	10.1	5.0	1.3	5.4
17.....	14.0	22.0	20.4	38.6	40.4	27.2	15.9	6.4	10.0	5.0	1.2	5.9
18.....	14.8	21.5	25.6	39.2	38.0	26.5	15.4	6.7	9.7	5.1	1.1	7.0
19.....	16.5	21.0	28.4	39.5	35.4	25.6	15.7	7.2	9.1	5.5	1.3	8.7
20.....	18.8	20.2	30.3	39.8	32.9	25.1	15.0	7.7	8.7	5.5	1.3	10.5
21.....	20.5	19.4	31.4	40.1	30.3	24.5	14.6	8.5	8.5	5.1	1.2	12.0
22.....	22.1	18.6	32.2	40.4	27.9	24.0	14.0	9.2	8.3	4.7	1.1	13.6
23.....	23.5	17.7	32.8	40.6	26.0	23.4	13.5	10.5	8.6	4.4	1.3	15.5
24.....	24.5	16.8	33.1	40.9	25.9	22.8	12.9	12.7	9.0	4.2	1.2	17.5
25.....	25.3	16.1	33.4	41.0	25.2	22.2	12.6	15.2	9.8	4.1	1.2	19.7
26.....	25.7	15.3	33.4	41.1	24.9	21.4	12.0	17.2	10.5	4.0	1.1	21.4
27.....	25.5	14.5	33.4	41.2	24.4	20.6	11.7	18.9	11.4	4.0	1.1	22.9
28.....	24.9	13.6	33.4	41.2	23.7	20.8	11.4	20.3	12.4	4.0	1.1	23.8
29.....	24.0	.....	33.4	41.3	23.2	21.1	11.0	21.3	12.9	4.0	1.0	24.5
30.....	23.0	.....	33.4	41.4	23.0	22.1	10.8	22.3	13.2	3.8	1.0	23.6
31.....	21.7	.....	33.2	.....	23.5	.....	10.5	22.7	.....	3.6	.....	22.8
Means.	17.3	18.9	20.8	37.5	35.6	25.9	18.5	11.0	13.1	6.4	1.8	9.1
<b>1902</b>												
1.....	21.7	13.5	12.4	40.6	26.9	21.0	21.9	29.9	17.4	6.8	16.0	18.0
2.....	20.3	14.5	13.0	40.0	25.0	23.3	22.2	30.0	17.7	7.7	15.7	18.5
3.....	19.0	17.6	13.7	39.7	23.7	24.8	22.4	30.0	18.0	9.4	15.1	18.9
4.....	17.9	20.1	15.3	39.4	22.4	26.0	22.8	29.8	18.4	11.5	14.0	19.6
5.....	17.3	22.7	18.2	39.2	21.7	26.9	23.4	29.2	19.0	12.5	13.0	20.4
6.....	17.7	25.0	20.2	39.3	21.5	27.5	24.5	28.6	19.4	13.5	12.4	21.2
7.....	18.9	27.1	22.4	39.4	21.3	27.7	26.0	27.9	19.6	15.2	11.6	22.2
8.....	20.9	28.8	23.9	39.8	22.2	27.6	27.9	27.0	19.5	15.8	11.0	23.0
9.....	22.9	30.2	27.1	40.0	22.6	27.2	29.5	26.1	19.3	16.2	10.5	23.9
10.....	24.9	31.1	29.0	40.2	23.0	26.8	30.6	25.4	19.2	16.8	9.5	24.5
11.....	26.1	31.9	30.7	40.5	23.3	26.2	31.3	24.3	19.3	17.1	8.4	25.6
12.....	27.0	32.4	32.2	40.8	23.4	25.7	31.9	23.4	19.4	17.6	7.8	26.0
13.....	27.4	32.8	33.3	41.0	22.8	25.5	31.9	22.5	19.1	18.1	7.4	26.5
14.....	27.5	33.0	34.2	41.1	22.3	25.3	31.9	21.9	18.5	18.9	7.0	26.8
15.....	27.2	32.7	35.1	41.1	21.6	25.1	31.9	21.4	17.6	19.8	7.1	27.0
16.....	26.5	31.9	36.0	41.0	20.7	24.8	31.8	21.0	16.6	20.2	7.3	27.4
17.....	25.3	30.7	36.9	40.8	19.8	24.7	31.5	20.6	15.0	20.3	7.6	28.1
18.....	24.0	28.9	37.7	40.3	19.0	24.6	31.2	20.0	14.5	20.0	8.0	29.5
19.....	21.4	26.7	38.6	39.4	18.6	24.5	30.9	19.5	13.0	19.4	8.2	31.4
20.....	19.0	23.5	39.1	38.4	18.1	24.3	30.7	19.0	12.0	18.7	9.4	33.4
21.....	16.5	21.5	39.6	37.2	17.8	24.3	30.7	18.5	11.0	18.0	9.8	35.0
22.....	14.5	19.3	39.9	36.2	17.5	24.1	30.6	17.9	10.5	17.3	10.6	36.3
23.....	13.0	16.5	40.2	35.2	17.1	23.8	30.5	17.0	10.0	16.6	11.4	37.3
24.....	11.5	14.5	40.4	34.4	16.9	23.3	30.4	16.5	9.5	16.0	11.5	38.0
25.....	10.5	13.9	40.7	33.7	16.7	22.8	30.4	16.0	9.0	15.8	11.8	38.6
26.....	10.0	13.2	40.7	33.0	16.5	22.1	30.4	15.7	8.5	15.5	12.0	39.1
27.....	9.5	12.7	41.0	32.0	16.4	21.5	30.2	15.9	8.1	15.5	12.9	39.4
28.....	9.0	12.4	41.4	30.9	17.0	21.0	30.0	16.3	7.7	15.5	14.2	39.9
29.....	9.6	.....	41.4	29.6	18.7	21.4	29.8	16.6	7.3	15.8	16.7	40.2
30.....	10.6	.....	41.2	28.3	19.8	21.6	29.7	17.0	7.0	16.1	17.7	40.6
31.....	11.7	.....	40.9	.....	20.6	.....	29.8	17.2	.....	16.2	.....	40.8
Means.	18.7	23.5	32.1	37.8	20.5	24.5	29.0	22.0	14.7	15.9	11.2	29.6

## DESCRIPTION OF RIVER GAGES, ETC.

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## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, ARKANSAS CITY, ARK.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	41.0	21.0	46.1	52.3	45.3	32.9	41.6	22.7	18.0	17.6	16.2	10.0
2.....	41.3	20.8	46.2	52.0	45.4	33.7	40.2	22.9	17.5	17.0	15.8	9.7
3.....	41.4	21.0	46.6	51.7	45.5	34.6	38.7	22.8	16.9	16.5	15.4	9.5
4.....	41.2	22.0	46.8	51.5	45.5	35.4	37.1	22.5	16.5	16.2	15.0	9.5
5.....	41.0	23.5	47.2	51.2	45.5	36.2	35.3	22.0	16.5	16.1	14.8	9.6
6.....	40.4	24.9	47.5	51.0	45.4	37.2	33.9	21.4	16.6	16.1	14.6	9.7
7.....	39.9	26.2	47.8	50.7	45.2	38.3	32.4	20.8	17.0	16.1	14.4	9.7
8.....	39.0	27.7	48.0	50.3	44.8	39.4	31.2	20.3	17.5	16.1	14.2	9.3
9.....	38.2	29.4	48.2	49.9	44.3	40.3	30.2	19.8	18.0	16.1	14.0	8.9
10.....	37.3	31.3	48.6	49.5	43.3	41.0	29.7	19.4	18.6	16.2	13.7	8.2
11.....	36.6	33.4	48.8	49.0	42.1	41.8	29.2	19.0	18.9	16.5	13.5	7.7
12.....	36.2	35.0	49.0	48.6	40.6	42.6	28.6	18.5	18.8	16.7	13.8	7.1
13.....	35.8	36.3	49.3	48.2	39.0	43.1	27.9	18.4	18.5	17.0	14.4	6.5
14.....	35.5	37.4	49.5	47.8	37.2	43.7	26.9	18.4	18.2	17.4	14.8	6.2
15.....	35.3	38.3	50.0	47.4	35.8	44.1	26.1	19.3	18.1	18.0	14.9	5.8
16.....	35.0	39.0	50.4	46.9	34.5	44.4	25.8	19.9	18.0	18.8	14.8	5.4
17.....	34.6	40.0	50.8	46.5	33.3	44.7	25.0	20.5	18.1	19.7	14.6	5.1
18.....	34.0	40.6	51.2	46.1	32.4	45.0	24.2	20.8	18.5	20.3	14.2	4.9
19.....	33.4	41.3	51.6	45.8	31.4	45.2	23.4	21.1	19.1	20.5	13.8	4.5
20.....	32.4	42.0	51.9	45.6	30.7	45.3	22.7	21.2	19.7	20.6	13.2	4.1
21.....	31.4	42.8	52.2	45.4	30.2	45.5	22.3	21.1	20.2	20.5	12.7	3.7
22.....	30.0	43.4	52.4	45.3	30.0	45.6	22.3	21.0	20.6	20.2	12.1	3.2
23.....	28.8	44.0	52.6	45.2	30.0	45.6	22.7	20.6	21.0	19.7	11.6	2.7
24.....	27.5	44.5	52.7	45.1	30.3	45.6	23.3	20.3	21.0	19.1	11.2	2.4
25.....	26.5	44.8	52.7	45.1	30.7	45.6	23.7	20.1	20.9	18.5	10.8	2.2
26.....	25.4	45.2	52.8	45.1	31.0	45.5	23.7	20.1	20.7	18.1	10.5	2.5
27.....	24.7	45.5	53.0	45.1	31.3	45.1	23.6	20.0	20.3	17.8	10.3	3.2
28.....	23.8	45.8	53.0	45.1	31.4	44.6	23.2	19.9	19.8	17.6	10.1	4.2
29.....	23.0	.....	52.8	45.2	31.5	43.8	22.9	19.8	19.2	17.4	10.1	5.8
30.....	22.3	.....	52.7	45.3	31.8	42.8	22.6	19.2	18.5	16.9	10.1	6.9
31.....	21.6	.....	52.5	.....	32.1	.....	22.6	18.6	.....	16.5	.....	7.9
<b>Means.</b>	33.4	35.3	50.2	47.8	37.0	42.0	27.8	20.4	18.7	17.8	13.3	6.3
<b>1904</b>												
1.....	8.7	26.9	22.8	40.0	44.9	28.3	36.1	28.3	15.4	10.8	5.8	4.7
2.....	9.4	27.7	22.8	40.7	44.5	27.7	35.1	26.8	15.3	10.5	6.0	4.6
3.....	9.9	28.3	22.9	41.1	44.2	27.3	34.2	25.4	14.8	10.6	6.0	4.3
4.....	10.1	28.7	23.0	41.8	44.1	27.3	33.6	24.4	14.3	10.8	6.5	4.1
5.....	10.2	29.0	23.0	42.3	44.0	28.4	33.4	23.1	13.1	11.3	6.7	4.0
6.....	10.3	29.2	23.0	42.8	44.0	29.6	33.3	21.6	12.1	11.5	7.0	3.9
7.....	10.4	29.4	23.2	43.3	44.0	31.4	33.1	20.3	11.5	11.7	7.2	3.8
8.....	10.6	29.0	23.4	43.9	44.2	33.4	33.0	19.1	10.7	11.8	7.5	3.7
9.....	10.6	28.3	23.5	44.4	44.3	34.8	32.7	18.3	10.2	11.7	7.6	3.6
10.....	10.4	27.4	23.7	45.1	44.3	36.1	32.5	17.9	9.8	11.5	7.6	3.5
11.....	10.0	26.2	24.0	45.8	44.4	37.2	32.1	17.5	9.5	12.3	7.5	3.3
12.....	9.6	25.0	24.8	46.5	44.5	38.2	32.0	17.0	9.4	12.5	7.3	3.2
13.....	9.2	23.5	25.8	47.1	44.5	39.1	32.0	16.3	9.2	11.7	7.0	3.2
14.....	8.9	22.6	27.2	47.6	44.5	39.9	32.4	14.8	9.0	10.6	6.9	3.2
15.....	8.5	21.9	28.8	48.0	44.5	40.6	33.1	14.0	8.6	9.7	6.9	3.2
16.....	8.3	21.7	30.3	48.4	44.4	41.0	34.0	13.5	8.3	8.9	6.8	3.3
17.....	7.7	22.0	31.5	48.7	44.3	41.4	35.0	13.1	8.1	8.3	6.7	3.5
18.....	7.2	22.3	32.8	48.9	44.0	41.7	35.8	12.7	7.9	7.8	6.7	3.7
19.....	7.0	22.8	33.7	49.0	43.5	41.7	36.3	12.4	7.8	7.5	6.7	3.9
20.....	6.7	23.4	34.5	49.0	42.8	41.7	36.7	12.2	7.7	7.1	6.7	4.1
21.....	6.2	24.0	35.0	49.0	41.9	41.4	36.9	11.9	7.6	6.9	6.7	4.1
22.....	6.1	24.5	35.6	49.0	40.6	41.2	37.0	11.7	7.6	6.6	6.5	3.7
23.....	6.1	24.9	36.2	48.8	39.3	40.9	36.9	11.6	7.6	6.5	6.3	3.2
24.....	6.5	25.1	36.4	48.5	37.8	40.7	36.8	11.7	7.6	6.2	6.1	3.0
25.....	7.3	24.9	36.6	48.3	36.3	40.2	36.4	11.7	8.3	5.8	5.9	2.7
26.....	9.5	24.4	36.9	47.9	34.9	39.7	35.8	12.0	9.4	5.8	5.6	2.5
27.....	12.8	23.9	36.9	47.4	33.8	39.1	35.1	12.5	10.3	5.8	5.5	3.0
28.....	16.1	22.3	37.0	46.8	32.8	38.5	34.0	13.5	11.1	5.8	5.2	3.8
29.....	20.0	22.9	37.6	46.2	31.7	37.8	32.7	14.5	11.4	5.7	5.0	4.4
30.....	23.4	.....	38.3	45.6	30.3	37.0	31.2	14.5	11.2	5.7	4.9	5.2
31.....	25.5	.....	39.1	.....	29.3	.....	29.7	15.1	.....	5.7	.....	5.5
<b>Means.</b>	10.4	25.3	30.0	46.1	41.1	36.8	34.2	16.4	10.2	8.9	6.5	3.7

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, GREENVILLE, MISS.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	13.6	20.2	27.5	31.5	28.0	14.9	24.6	13.4	7.3	5.4	7.8	21.6
2.....	13.6	20.1	27.2	31.3	28.3	14.8	25.5	13.8	7.7	5.6	7.9	22.8
3.....	13.5	19.7	26.8	31.1	28.3	14.9	26.3	14.1	7.7	5.7	8.1	23.8
4.....	13.2	19.2	26.5	30.8	28.1	15.1	27.1	14.3	7.6	5.8	8.1	24.7
5.....	12.7	18.4	26.0	30.4	27.7	15.7	27.6	14.5	7.5	5.8	8.7	25.5
6.....	12.0	17.5	25.6	29.7	27.2	16.1	28.0	14.6	7.4	6.4	9.7	26.3
7.....	11.0	16.3	25.2	28.9	26.5	16.5	28.1	14.8	7.5	7.5	10.6	26.9
8.....	10.0	15.1	24.8	28.0	25.6	17.2	28.0	14.9	7.8	8.5	11.1	27.5
9.....	8.9	13.7	24.5	27.0	24.7	17.7	27.7	14.8	8.0	9.2	11.2	27.8
10.....	8.0	12.6	24.3	26.0	23.7	18.2	27.3	14.6	8.3	9.7	11.2	27.9
11.....	7.2	11.7	24.3	25.6	22.8	18.9	26.6	14.2	8.4	10.2	11.2	27.8
12.....	6.5	11.3	24.9	25.0	22.0	19.6	25.5	13.6	8.4	10.4	11.3	27.3
13.....	6.1	11.8	26.2	24.5	21.4	20.1	24.2	13.0	8.3	10.4	11.4	26.6
14.....	5.9	13.3	27.6	24.1	21.1	20.3	22.6	12.4	8.1	10.1	11.3	25.6
15.....	5.9	15.5	28.9	23.8	20.8	20.5	20.8	11.6	7.8	10.0	11.1	24.4
16.....	6.2	17.9	30.0	23.7	20.4	20.9	19.1	10.8	7.3	9.8	10.8	23.0
17.....	6.5	20.1	30.8	23.7	19.8	21.3	17.5	10.0	6.9	9.6	10.4	21.8
18.....	6.7	22.1	31.5	23.8	19.3	21.6	16.2	9.2	6.5	9.4	10.0	20.8
19.....	6.9	23.0	32.2	24.2	18.9	21.7	14.9	8.5	6.0	9.1	9.6	20.0
20.....	7.4	24.0	32.6	24.7	18.4	22.1	14.0	7.8	5.6	8.8	9.3	19.2
21.....	8.7	24.8	32.9	25.1	18.0	22.7	13.2	7.1	5.4	8.7	9.1	18.5
22.....	10.0	25.4	33.2	25.3	17.5	23.4	12.5	6.5	5.1	8.7	9.0	17.7
23.....	11.5	26.0	33.6	25.3	16.9	23.7	12.0	6.1	4.9	8.4	9.1	16.8
24.....	12.7	26.5	33.6	25.3	16.3	23.7	11.6	5.8	4.7	8.1	9.7	16.1
25.....	13.8	26.9	33.7	25.3	15.8	23.4	11.3	5.5	4.6	7.8	10.6	15.2
26.....	15.2	27.2	33.6	25.5	15.4	23.0	11.3	5.4	4.5	7.6	11.7	14.5
27.....	16.6	27.4	33.3	26.0	15.3	22.7	11.4	5.7	4.4	7.4	13.6	13.7
28.....	17.9	27.5	33.1	26.5	15.5	22.7	11.5	6.1	4.5	7.3	16.0	12.8
29.....	18.8	.....	32.5	27.1	15.5	23.1	11.7	6.5	4.7	7.4	18.3	12.0
30.....	19.6	.....	32.1	27.6	15.4	23.7	12.1	6.8	5.1	7.5	20.2	11.3
31.....	19.9	.....	31.7	.....	15.2	.....	12.8	7.1	.....	7.6	.....	10.8
<b>Means.</b>	<b>11.2</b>	<b>19.8</b>	<b>29.4</b>	<b>26.6</b>	<b>21.0</b>	<b>20.0</b>	<b>19.5</b>	<b>10.4</b>	<b>6.6</b>	<b>8.2</b>	<b>10.9</b>	<b>21.0</b>
<b>1901</b>												
1.....	10.5	17.5	10.5	28.3	35.7	18.9	18.5	8.4	18.9	10.5	3.0	0.9
2.....	10.3	16.6	10.0	28.0	35.8	20.2	19.2	8.2	18.8	10.3	2.9	0.9
3.....	10.3	15.8	9.4	27.8	36.0	21.5	20.0	8.0	18.5	9.8	2.8	0.9
4.....	10.4	14.9	8.9	27.7	36.1	22.5	20.7	7.8	17.8	9.3	2.7	0.8
5.....	10.5	14.4	8.6	27.8	36.3	23.3	21.4	7.6	16.9	8.6	2.5	0.9
6.....	10.5	14.0	8.3	28.0	36.4	23.7	22.0	7.4	15.6	7.9	2.4	0.9
7.....	10.4	13.8	8.1	28.5	36.6	23.9	22.4	7.1	14.3	7.3	2.3	1.0
8.....	10.3	13.8	7.8	29.2	36.8	24.0	22.4	6.9	12.9	6.8	2.2	1.1
9.....	10.3	14.2	7.7	29.8	36.9	24.1	22.1	6.8	11.8	6.3	2.1	1.3
10.....	10.3	14.9	7.5	30.4	37.1	24.1	21.4	6.8	10.7	5.8	2.0	1.4
11.....	10.5	15.8	7.4	30.9	37.2	24.3	20.4	6.7	9.9	5.4	1.9	1.5
12.....	10.6	16.7	7.5	31.3	37.3	24.4	19.2	6.5	9.3	5.0	1.8	1.8
13.....	10.8	17.5	8.7	31.7	37.4	24.3	17.8	6.2	8.9	4.8	1.6	2.2
14.....	10.8	18.0	10.7	32.0	37.3	24.1	16.5	5.9	8.6	4.6	1.5	2.9
15.....	10.8	18.3	12.3	32.3	37.1	23.8	15.5	5.6	8.5	4.4	1.4	3.3
16.....	10.8	18.3	14.1	32.7	36.5	23.3	14.6	5.4	8.4	4.2	1.3	3.7
17.....	10.9	18.2	17.1	33.0	35.5	22.8	14.0	5.4	8.2	4.2	1.2	4.1
18.....	11.4	17.9	20.5	33.5	33.7	22.1	13.4	5.5	7.9	4.4	1.2	4.7
19.....	12.6	17.4	23.2	33.9	31.2	21.4	12.9	5.9	7.5	4.5	1.2	5.9
20.....	14.4	16.8	25.2	34.2	28.9	20.7	12.5	6.3	7.2	4.5	1.2	7.4
21.....	16.2	16.2	26.4	34.5	26.5	20.2	12.0	6.8	7.1	4.4	1.2	9.0
22.....	17.7	15.4	27.2	34.7	24.3	19.8	11.6	7.3	7.0	4.1	1.1	10.2
23.....	19.1	14.6	27.8	35.0	22.4	19.3	11.1	8.0	7.1	3.9	1.2	11.7
24.....	20.1	13.9	28.2	35.2	21.0	18.7	10.7	9.4	7.3	3.7	1.1	13.5
25.....	20.9	13.1	28.5	35.3	20.1	18.1	10.4	11.4	7.8	3.6	1.1	15.5
26.....	21.4	12.4	28.6	35.4	19.6	17.6	10.0	13.2	8.2	3.5	1.1	17.2
27.....	21.5	11.8	28.7	35.4	19.2	17.1	9.7	14.8	8.9	3.5	1.1	18.6
28.....	21.1	11.1	28.7	35.5	18.7	16.9	9.4	16.1	9.5	3.4	1.0	19.6
29.....	20.4	.....	28.7	35.5	18.2	17.1	9.2	17.1	10.1	3.4	1.0	20.0
30.....	19.5	.....	28.6	35.6	18.0	17.7	8.9	18.0	10.4	3.3	0.9	19.8
31.....	18.5	.....	28.5	.....	18.2	.....	8.7	18.6	.....	3.2	.....	19.3
<b>Means.</b>	<b>14.0</b>	<b>15.5</b>	<b>17.5</b>	<b>32.1</b>	<b>30.4</b>	<b>21.1</b>	<b>15.4</b>	<b>8.9</b>	<b>10.8</b>	<b>5.4</b>	<b>1.7</b>	<b>7.1</b>

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, GREENVILLE, MISS.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	18.4	9.9	10.7	35.3	22.7	17.1	17.5	24.8	13.8	6.0	12.7	14.4
2.....	17.2	11.7	10.8	34.9	21.3	18.3	17.8	24.9	14.0	6.3	12.5	14.7
3.....	16.0	13.4	11.4	34.6	19.9	19.6	18.0	25.0	14.2	7.5	12.1	15.1
4.....	14.9	15.4	12.5	34.2	18.7	20.8	18.3	24.9	14.5	8.6	11.4	15.6
5.....	14.2	17.9	14.0	34.1	17.8	21.7	18.7	24.5	14.9	9.9	10.8	16.4
6.....	14.2	20.3	15.6	34.0	17.4	22.3	19.5	24.0	15.4	10.9	10.1	17.1
7.....	15.0	22.3	17.6	34.2	17.4	22.8	20.7	23.3	15.6	11.7	9.4	17.9
8.....	16.5	24.0	19.8	34.3	17.6	22.7	22.3	22.6	15.6	12.2	8.7	18.6
9.....	18.4	25.5	22.1	34.5	17.9	22.4	23.9	21.8	15.5	12.6	8.1	19.4
10.....	20.2	26.5	23.9	34.8	18.3	22.1	25.0	21.0	15.4	13.0	7.6	20.1
11.....	21.6	27.2	25.6	34.9	18.6	21.7	25.7	20.2	15.4	13.3	7.2	20.8
12.....	22.6	27.8	27.1	35.1	18.7	21.3	26.2	19.4	15.6	13.7	6.9	21.5
13.....	23.1	28.2	28.2	35.2	18.5	21.0	26.5	18.7	15.4	14.2	6.6	22.0
14.....	23.3	28.4	29.2	35.4	18.0	20.8	26.6	18.0	15.0	14.7	6.5	22.3
15.....	23.2	28.3	30.1	35.5	17.5	20.5	26.6	17.5	14.3	15.5	6.6	22.6
16.....	22.8	27.7	30.9	35.5	16.9	20.3	26.5	17.1	13.6	16.1	6.7	22.8
17.....	21.9	26.8	31.6	35.3	16.1	20.2	26.3	16.7	12.7	16.3	6.9	23.5
18.....	20.5	25.4	32.4	35.0	15.4	20.1	26.1	16.3	11.9	16.2	7.2	24.5
19.....	18.6	23.6	33.1	34.4	14.9	20.0	25.8	15.9	11.1	15.8	7.4	26.1
20.....	16.7	21.4	33.7	33.4	14.5	19.8	25.6	15.4	10.5	15.2	7.5	27.8
21.....	14.6	19.1	34.1	32.4	14.2	19.7	25.5	15.0	9.8	14.6	7.6	29.5
22.....	12.3	16.9	34.5	31.4	13.9	19.6	25.5	14.5	9.2	14.0	8.1	30.7
23.....	10.6	14.8	34.7	30.4	13.6	19.4	25.4	13.9	8.7	13.4	8.7	31.6
24.....	9.0	13.6	35.0	29.5	13.4	19.1	25.3	13.3	8.3	12.9	9.0	32.4
25.....	7.9	12.5	35.1	28.8	13.2	18.6	25.3	12.9	7.8	12.5	9.3	32.9
26.....	7.1	11.7	35.2	28.0	13.0	18.1	25.3	12.6	7.5	12.3	9.4	33.4
27.....	6.7	11.2	35.5	27.2	12.9	17.5	25.2	12.6	7.1	12.2	9.8	33.8
28.....	6.6	10.8	35.8	26.3	12.9	17.2	25.1	12.7	6.6	12.2	11.3	34.2
29.....	7.1	.....	36.0	25.3	14.2	17.1	24.9	13.0	6.3	12.3	12.9	34.4
30.....	7.7	.....	35.9	24.0	15.4	17.3	24.8	13.4	6.1	12.5	13.9	34.8
31.....	8.5	.....	35.6	.....	16.1	.....	24.7	13.6	.....	12.6	.....	35.0
<b>Means.</b>	<b>15.4</b>	<b>20.1</b>	<b>27.3</b>	<b>32.6</b>	<b>16.5</b>	<b>20.0</b>	<b>23.9</b>	<b>18.0</b>	<b>12.1</b>	<b>12.6</b>	<b>9.1</b>	<b>24.7</b>
<b>1903</b>												
1.....	35.2	16.9	40.2	46.6	39.5	27.0	36.2	18.3	14.6	14.3	12.9	8.1
2.....	35.5	16.6	40.4	46.4	39.6	27.7	34.9	18.5	14.0	13.7	12.6	7.9
3.....	35.6	16.6	40.7	46.2	39.7	28.5	33.4	18.5	13.6	13.3	12.4	7.8
4.....	35.5	17.1	41.1	45.8	39.7	29.2	31.9	18.3	13.3	13.0	12.2	7.7
5.....	35.3	18.1	41.4	45.3	39.7	29.9	30.3	18.0	13.1	12.9	12.0	7.7
6.....	35.0	19.6	41.7	45.0	39.6	30.8	29.0	17.5	13.2	12.8	11.8	7.8
7.....	34.6	20.9	42.2	44.7	39.5	31.8	27.7	16.9	13.3	12.8	11.6	7.8
8.....	33.8	22.1	42.5	44.3	39.1	32.7	26.5	16.5	13.7	12.8	11.5	7.5
9.....	33.1	23.6	42.7	44.0	38.7	33.6	25.5	16.1	14.2	12.8	11.3	7.3
10.....	32.4	25.3	43.0	43.6	37.8	34.4	24.9	15.8	14.7	12.8	11.1	6.9
11.....	31.8	27.3	43.4	43.2	36.7	35.2	24.5	15.5	15.0	12.9	11.0	6.4
12.....	31.1	28.9	43.7	42.8	35.4	36.0	23.9	15.2	15.0	13.1	11.0	6.0
13.....	30.8	30.3	44.0	42.5	33.9	36.7	23.2	14.9	14.8	13.3	11.4	5.6
14.....	30.4	31.4	44.4	42.1	32.3	37.4	22.5	15.1	14.6	13.6	11.8	5.3
15.....	30.1	32.3	44.9	41.6	30.8	37.9	21.8	15.4	14.4	14.0	11.9	5.0
16.....	29.8	33.1	45.4	41.3	29.6	38.2	21.2	15.8	14.3	14.5	11.9	4.7
17.....	29.5	33.8	46.0	40.9	28.4	38.6	20.6	16.2	14.3	15.2	11.7	4.4
18.....	29.0	34.6	46.5	40.5	27.5	38.8	20.0	16.5	14.5	15.8	11.5	4.2
19.....	28.4	35.2	47.1	40.2	26.6	39.1	19.3	16.7	14.9	16.1	11.1	4.0
20.....	27.6	36.0	47.6	39.9	25.9	39.3	18.7	16.8	15.5	16.2	10.8	3.8
21.....	26.7	36.7	48.0	39.7	25.3	39.5	18.4	16.8	15.9	16.2	10.4	3.5
22.....	25.6	37.4	48.2	39.5	24.9	39.7	18.2	16.7	16.2	16.0	9.9	3.2
23.....	24.4	38.0	48.5	39.4	24.8	39.8	18.3	16.5	16.5	15.6	9.6	2.9
24.....	23.3	38.5	48.6	39.3	24.9	39.8	18.7	16.4	16.6	15.2	9.2	2.8
25.....	22.2	38.9	48.8	39.2	25.2	39.8	19.0	16.2	16.6	14.8	8.8	2.7
26.....	21.3	39.3	48.9	39.2	25.5	39.7	19.1	16.1	16.5	14.4	8.5	2.7
27.....	20.5	39.6	49.1	39.2	25.8	39.4	19.1	16.0	16.2	14.1	8.4	3.1
28.....	19.7	40.0	48.0	39.3	25.9	38.9	18.9	15.9	15.8	13.9	8.3	3.7
29.....	18.8	.....	47.6	39.3	26.0	38.2	18.7	15.8	15.4	13.7	8.2	4.6
30.....	17.8	.....	47.2	39.5	26.2	37.4	18.4	15.5	14.9	13.4	8.1	5.5
31.....	17.3	.....	46.8	.....	26.5	.....	18.3	15.1	.....	13.2	.....	6.3
<b>Means.</b>	<b>28.5</b>	<b>29.6</b>	<b>45.1</b>	<b>42.0</b>	<b>31.6</b>	<b>35.8</b>	<b>23.3</b>	<b>16.4</b>	<b>14.9</b>	<b>14.1</b>	<b>10.8</b>	<b>5.4</b>

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, GREENVILLE, MISS.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1904</b>												
1.....	7.0	21.8	18.4	33.7	39.7	23.7	30.6	23.7	12.3	8.8	4.8	3.7
2.....	7.6	22.7	18.4	34.3	39.2	23.0	29.7	22.4	12.3	8.5	4.9	3.6
3.....	7.9	23.4	18.5	34.9	38.8	22.5	28.9	21.1	12.0	8.5	5.1	3.4
4.....	8.2	23.9	18.5	35.4	38.5	22.4	28.3	19.8	11.5	8.6	5.3	3.3
5.....	8.3	24.2	18.6	36.0	38.3	22.9	27.9	18.6	10.8	8.9	5.5	3.3
6.....	8.3	24.5	18.7	36.6	38.3	23.8	27.8	17.5	10.2	9.1	5.7	3.1
7.....	8.4	24.6	18.7	37.0	38.3	25.2	27.6	16.3	9.6	9.3	5.9	3.0
8.....	8.5	24.4	18.8	37.6	38.4	27.0	27.5	15.5	9.0	9.4	6.1	2.9
9.....	8.5	23.9	19.0	38.1	38.5	28.4	27.3	14.7	8.5	9.4	6.2	2.9
10.....	8.3	23.2	19.1	38.8	38.6	29.5	27.1	14.3	8.2	9.2	6.2	2.8
11.....	7.9	22.2	19.4	39.4	38.6	30.7	26.8	13.9	7.9	9.6	6.1	2.7
12.....	7.7	21.1	19.8	40.0	38.7	31.6	26.7	13.6	7.7	9.9	6.1	2.6
13.....	7.3	19.9	20.7	40.7	38.7	32.5	26.7	13.1	7.6	9.6	6.0	2.5
14.....	7.0	18.7	21.9	41.5	38.7	33.3	26.8	12.5	7.5	8.9	5.8	2.5
15.....	6.8	17.9	23.3	42.1	38.7	34.0	27.3	11.9	7.2	8.0	5.7	2.5
16.....	6.5	17.7	24.7	42.5	38.6	34.5	28.0	11.4	7.0	7.4	5.6	2.6
17.....	6.2	17.7	26.0	42.9	38.4	35.0	28.9	10.9	6.8	6.9	5.5	2.7
18.....	5.9	18.0	27.0	43.2	38.2	35.3	29.6	10.6	6.6	6.6	5.5	2.9
19.....	5.5	18.3	27.9	43.3	37.8	35.5	30.3	10.3	6.5	6.2	5.4	3.0
20.....	5.2	18.7	28.8	43.5	37.2	35.4	30.6	10.1	6.4	6.0	5.2	3.1
21.....	5.0	19.3	29.3	43.5	36.4	35.3	30.8	9.8	6.4	5.8	5.2	3.1
22.....	5.0	19.8	29.8	43.5	35.2	35.1	31.0	9.7	6.3	5.6	5.1	2.9
23.....	5.0	20.3	30.3	43.5	34.1	34.9	31.0	9.6	6.2	5.3	5.0	2.6
24.....	5.1	20.4	30.7	43.3	32.7	34.6	30.9	9.6	6.2	5.2	4.9	2.5
25.....	5.5	20.4	30.9	43.2	31.3	34.3	30.6	9.6	6.7	5.0	4.7	2.1
26.....	6.4	20.0	31.0	42.8	30.0	33.8	30.2	9.7	7.3	4.9	4.5	1.9
27.....	8.9	19.6	31.1	42.3	28.8	33.3	29.6	10.0	8.1	4.8	4.4	2.5
28.....	11.6	19.1	31.3	41.7	27.8	32.7	28.8	10.7	8.7	4.8	4.2	2.9
29.....	14.9	18.7	31.6	41.0	26.6	32.1	27.7	11.2	9.1	4.8	4.0	3.6
30.....	18.1	.....	32.3	40.4	25.6	31.5	26.4	11.5	9.1	4.7	3.9	4.1
31.....	20.6	.....	33.0	.....	24.6	.....	25.0	12.0	.....	4.7	.....	4.3
Means.	8.2	20.8	24.8	40.2	35.6	30.8	28.6	13.4	8.4	7.2	5.3	3.0

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, VICKSBURG, MISS.

<b>1900</b>												
1.....	13.4	20.7	30.7	36.6	33.1	17.9	28.0	14.7	5.8	2.9	6.7	20.2
2.....	13.7	21.2	30.8	36.4	33.5	17.8	28.6	15.4	6.1	3.3	6.9	22.0
3.....	13.9	21.5	30.7	36.2	33.8	17.5	29.3	15.9	6.4	3.6	7.1	23.3
4.....	14.0	21.1	30.4	36.0	34.0	17.5	30.2	16.2	6.6	3.8	7.2	24.8
5.....	13.8	20.5	30.0	35.7	33.8	17.5	31.0	16.5	6.6	3.9	7.3	25.8
6.....	13.4	20.3	29.7	35.3	33.6	17.8	31.6	16.6	6.5	4.0	7.7	26.9
7.....	12.7	19.4	29.3	34.8	33.3	18.3	32.1	16.8	6.4	4.4	8.6	27.8
8.....	11.8	18.3	29.0	34.2	32.8	18.8	32.4	17.0	6.3	5.3	9.6	28.8
9.....	10.7	17.0	28.7	33.4	32.0	19.4	32.5	17.0	6.5	6.5	10.5	29.5
10.....	9.5	15.7	28.2	32.4	31.2	20.0	32.4	16.9	6.8	7.6	11.0	30.0
11.....	8.4	14.3	28.1	31.8	30.2	20.6	32.1	16.7	7.1	8.3	11.2	30.2
12.....	7.3	14.1	27.9	31.1	29.2	21.2	31.6	16.3	7.0	8.9	11.2	30.3
13.....	6.2	12.3	28.2	30.4	28.2	22.0	30.9	15.8	7.3	9.5	11.2	30.1
14.....	5.4	12.3	29.0	29.7	27.3	22.7	29.9	15.0	7.3	9.6	11.3	29.6
15.....	4.9	13.2	30.2	29.2	26.7	23.2	28.5	14.3	7.1	9.5	11.3	28.9
16.....	4.6	15.0	31.7	28.9	26.1	23.6	26.9	13.3	6.8	9.3	11.1	27.8
17.....	4.7	17.9	32.8	29.8	25.6	24.0	25.2	12.2	6.4	9.1	10.9	26.6
18.....	5.0	20.3	33.8	30.2	25.0	24.4	23.3	11.2	5.9	8.9	10.4	25.4
19.....	5.3	22.3	34.9	30.4	24.3	25.0	21.6	10.1	5.4	8.7	9.9	24.2
20.....	5.6	24.0	35.6	30.4	23.6	25.4	20.2	9.0	4.9	8.4	9.6	23.2
21.....	6.1	25.6	36.2	30.7	22.9	25.8	18.8	8.0	4.3	8.1	9.1	22.3
22.....	7.0	26.5	36.6	31.0	22.3	26.4	17.5	7.0	3.9	8.0	8.7	21.3
23.....	8.6	27.4	37.0	31.4	21.6	27.3	16.4	6.0	3.5	7.8	8.4	20.5
24.....	10.3	28.2	37.4	31.6	20.8	27.9	15.5	5.5	3.2	7.6	8.4	19.4
25.....	11.9	28.9	37.8	31.6	20.0	28.1	14.7	4.8	2.9	7.4	8.9	18.5
26.....	12.9	29.5	37.8	31.6	19.3	28.0	14.0	4.4	2.7	7.0	9.6	17.7
27.....	14.8	29.7	38.0	31.8	18.5	27.8	13.8	4.3	2.5	6.7	10.8	16.8
28.....	16.4	30.4	37.8	31.9	18.0	27.6	13.8	4.3	2.4	6.6	12.7	15.9
29.....	17.9	.....	37.6	32.3	17.9	27.4	13.8	4.6	2.5	6.3	15.3	15.0
30.....	19.2	.....	37.3	32.7	17.7	27.5	13.8	5.1	2.6	6.3	18.0	14.0
31.....	20.1	.....	37.0	.....	17.8	.....	14.1	5.5	.....	6.5	.....	13.0
Means.	10.6	21.0	32.9	32.0	26.3	22.9	24.0	11.5	5.3	6.9	10.0	23.5

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, VICKSBURG, MISS.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	12.3	21.6	13.7	31.9	40.0	21.7	19.4	8.7	19.5	10.2	0.8	-2.2
2.....	11.7	20.7	13.0	31.8	40.0	21.8	19.9	8.4	20.0	10.5	0.6	-2.1
3.....	11.3	20.0	12.1	31.6	40.1	22.6	20.6	8.1	20.4	10.5	0.4	-2.1
4.....	11.0	19.2	11.4	31.4	40.1	23.7	21.4	7.8	20.2	10.2	0.4	-2.2
5.....	11.0	18.2	10.4	31.2	40.2	24.8	22.2	7.7	19.6	9.6	0.1	-2.3
6.....	11.0	17.4	9.9	31.2	40.4	25.8	23.1	7.2	18.9	9.0	-0.1	-2.3
7.....	11.0	17.0	9.4	31.3	40.5	26.8	23.9	7.0	17.8	8.1	-0.3	-2.3
8.....	11.0	16.8	9.0	31.7	40.6	27.2	24.5	6.7	16.6	7.2	-0.5	-2.2
9.....	10.9	16.7	8.4	32.2	40.8	27.4	24.8	6.4	15.2	6.5	-0.6	-1.7
10.....	10.9	16.8	8.4	32.7	40.9	27.4	24.7	6.1	13.6	5.7	-0.7	-1.5
11.....	11.7	17.1	8.1	33.3	41.1	27.5	24.4	6.0	12.2	5.0	-0.9	-1.4
12.....	12.3	17.8	7.9	33.9	41.2	27.6	23.6	5.9	11.0	4.4	-1.0	-1.4
13.....	12.4	18.8	8.0	34.5	41.3	27.8	22.7	5.7	10.0	3.9	-1.2	-1.1
14.....	12.4	19.6	8.7	35.0	41.4	27.8	21.5	5.4	9.3	3.2	-1.4	-0.3
15.....	12.6	20.2	10.5	35.2	41.5	27.6	20.0	5.2	8.9	2.9	-1.5	0.6
16.....	12.6	20.7	12.4	35.7	41.5	27.4	18.6	4.8	8.4	2.5	-1.7	1.3
17.....	12.7	20.9	14.4	36.0	41.2	27.0	17.4	4.5	8.2	2.3	-1.7	1.9
18.....	12.8	20.9	17.2	36.7	40.8	26.5	16.3	4.3	8.0	2.2	-2.0	2.5
19.....	13.0	20.6	20.4	37.2	40.0	25.8	15.5	4.3	7.6	2.3	-2.1	3.3
20.....	13.9	20.3	23.8	37.4	38.7	25.2	14.6	4.5	7.3	2.5	-2.1	4.5
21.....	15.4	19.9	26.1	37.8	37.0	24.4	14.0	5.1	6.9	2.8	-2.0	6.2
22.....	17.2	19.2	27.8	38.2	35.0	23.7	13.5	5.6	6.6	2.5	-2.0	7.8
23.....	18.9	18.5	29.1	38.4	32.7	23.0	12.7	6.3	6.4	2.2	-1.9	9.5
24.....	20.4	17.8	30.1	38.8	30.2	22.4	12.2	7.2	6.4	1.9	-2.0	11.1
25.....	21.7	16.9	30.8	39.1	28.2	21.8	11.8	8.6	6.6	1.6	-2.0	12.5
26.....	22.7	16.0	31.3	39.4	26.8	21.2	11.2	10.6	7.0	1.4	-2.0	14.3
27.....	23.6	15.3	31.7	39.4	25.0	20.4	10.6	12.9	7.5	1.2	-2.2	17.5
28.....	23.9	14.4	31.8	39.5	24.0	19.7	10.1	14.6	8.2	1.2	-2.2	19.3
29.....	23.7	.....	31.8	39.8	23.1	19.3	9.7	16.2	8.9	1.1	-2.2	20.6
30.....	23.2	.....	32.0	39.9	22.4	19.2	9.3	17.5	9.6	1.0	-2.2	21.4
31.....	22.5	.....	32.0	.....	21.9	.....	9.0	18.6	.....	1.0	.....	21.6
<b>Means.</b>	15.2	18.5	18.1	35.4	36.1	24.5	17.5	8.0	11.6	4.4	-1.2	4.9
<b>1902</b>												
1.....	21.3	8.3	13.3	40.8	32.2	17.4	19.3	27.8	14.3	5.3	13.1	13.3
2.....	20.8	10.1	13.0	40.8	30.9	18.3	19.4	27.8	14.5	4.9	13.1	14.5
3.....	19.8	11.8	12.9	40.6	29.5	19.5	19.6	27.9	14.8	4.8	13.0	15.6
4.....	18.7	13.9	13.1	40.6	28.1	20.9	19.8	27.9	15.0	6.0	12.7	16.1
5.....	17.6	16.2	14.0	40.4	26.5	22.2	20.2	27.8	15.3	7.4	12.3	16.8
6.....	16.7	18.7	15.3	40.2	25.1	23.3	20.5	27.6	15.6	8.9	11.6	17.3
7.....	16.2	21.1	16.9	40.2	24.2	24.3	21.1	27.2	16.2	10.3	10.8	17.8
8.....	16.4	23.4	18.8	40.3	23.5	25.0	22.1	26.7	16.5	11.3	9.8	19.0
9.....	17.5	25.3	21.0	40.4	23.1	25.4	23.6	26.1	16.8	12.0	8.8	19.8
10.....	19.5	27.0	23.3	40.4	23.0	25.3	25.2	25.4	16.7	12.8	8.2	20.5
11.....	21.4	28.4	25.3	40.4	23.1	25.2	26.7	24.6	16.7	13.3	7.4	21.3
12.....	22.7	29.4	27.4	40.6	23.2	24.8	27.9	23.7	16.6	13.8	6.8	21.8
13.....	24.0	30.3	29.1	40.7	23.2	24.4	28.8	22.8	16.7	14.2	6.1	23.0
14.....	24.8	30.9	30.5	40.8	22.9	24.0	29.1	21.8	16.7	14.8	5.8	23.8
15.....	25.3	31.2	31.9	40.9	22.5	23.8	29.4	21.1	16.5	15.4	5.5	24.3
16.....	25.2	31.4	32.8	41.1	21.9	23.4	29.6	20.4	15.9	16.1	5.5	25.2
17.....	25.0	31.0	33.6	41.2	21.2	23.1	29.6	19.8	15.1	16.7	5.5	25.5
18.....	24.3	30.3	34.4	41.2	20.3	23.0	29.5	19.1	14.3	17.2	5.7	25.8
19.....	23.4	29.2	35.2	41.0	19.5	22.8	29.3	18.6	13.4	17.2	5.8	26.3
20.....	22.0	28.0	36.2	40.7	18.7	22.7	29.2	18.1	12.4	17.1	6.2	27.1
21.....	20.1	26.1	36.8	40.3	17.9	22.5	29.0	17.5	11.4	16.6	6.4	29.9
22.....	18.0	24.1	37.4	39.8	17.2	22.4	28.7	17.0	10.6	16.0	6.6	31.6
23.....	15.7	21.9	37.8	39.1	16.5	22.1	28.6	16.4	9.7	15.4	7.0	33.0
24.....	13.4	19.8	38.3	38.5	16.0	21.9	28.5	15.8	9.2	14.7	7.7	34.1
25.....	11.2	17.8	38.6	37.6	15.6	21.7	28.4	15.1	8.4	14.0	8.4	35.0
26.....	9.5	15.9	39.0	37.0	15.3	21.2	28.3	14.4	7.8	13.6	8.9	35.7
27.....	7.5	15.0	39.3	36.1	14.9	20.7	28.2	13.9	7.2	13.1	9.2	36.2
28.....	7.2	14.0	40.2	35.2	14.6	20.2	28.2	13.7	6.8	12.9	9.4	36.8
29.....	6.6	.....	40.6	34.4	14.5	19.8	28.0	13.7	6.2	12.8	9.9	37.4
30.....	6.7	.....	40.8	33.3	15.2	19.4	28.0	13.8	5.8	12.8	11.5	37.7
31.....	7.5	.....	40.8	.....	16.3	.....	27.9	14.0	.....	12.9	.....	37.9
<b>Means.</b>	17.6	22.5	29.3	39.5	21.2	22.4	26.2	20.9	13.1	12.7	8.6	25.8

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, VICKSBURG, MISS.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	38.3	22.1	44.3	51.3	45.0	31.4	42.5	21.2	17.4	17.0	14.5	7.8
2.....	38.9	21.6	44.5	51.2	44.9	31.8	42.2	21.0	16.8	16.4	14.1	7.7
3.....	39.3	21.2	44.9	51.2	44.9	32.3	41.5	20.9	16.2	15.6	13.8	7.5
4.....	39.4	21.0	45.2	50.9	44.9	32.9	40.9	20.8	15.6	15.1	13.4	7.3
5.....	39.6	21.2	45.4	50.7	44.9	33.4	40.1	21.0	15.2	14.6	13.1	7.1
6.....	39.8	21.8	45.7	50.6	44.8	34.3	39.0	20.9	14.8	14.3	12.9	7.0
7.....	39.4	23.2	46.3	50.5	44.8	35.0	37.8	20.5	14.7	14.0	12.7	6.9
8.....	39.2	25.0	46.5	50.4	44.5	35.8	36.3	20.0	14.8	14.0	12.5	6.9
9.....	38.8	26.1	46.8	50.2	44.3	36.7	34.8	19.5	15.0	13.9	12.3	6.9
10.....	38.4	27.7	47.1	50.1	44.1	37.5	33.3	19.0	15.5	13.9	12.1	6.8
11.....	37.9	29.0	47.5	49.9	43.9	38.3	31.9	18.6	16.0	13.9	11.8	6.6
12.....	37.5	31.1	47.8	49.6	43.5	39.1	30.7	18.1	16.3	13.9	11.6	5.8
13.....	36.7	32.7	47.9	49.4	43.1	39.8	29.7	17.7	16.5	14.1	11.5	5.4
14.....	36.4	34.1	48.2	49.1	42.3	40.5	28.8	17.4	16.5	14.3	11.6	4.9
15.....	35.7	35.3	48.5	48.8	41.4	41.0	27.8	17.4	16.4	14.5	11.9	4.6
16.....	35.3	36.6	48.8	48.5	40.5	41.4	26.8	17.4	16.1	14.9	12.3	4.0
17.....	35.0	37.7	49.0	48.2	39.5	41.6	25.9	17.8	15.9	15.5	12.3	3.5
18.....	34.5	38.7	49.3	47.9	38.3	41.9	25.0	18.3	15.8	16.1	12.1	3.2
19.....	34.2	39.3	49.5	47.7	36.9	42.2	24.2	18.7	15.8	16.5	11.9	2.7
20.....	33.7	39.8	49.9	47.4	35.6	42.5	23.3	19.0	16.3	17.2	11.5	2.5
21.....	33.0	40.5	50.3	47.1	34.5	42.7	22.7	19.3	16.8	17.4	11.2	2.2
22.....	32.2	41.1	50.6	46.8	33.2	42.9	21.8	19.5	17.2	17.6	10.9	1.8
23.....	31.1	41.5	50.9	46.5	32.1	42.9	21.5	19.3	17.6	17.6	10.6	1.4
24.....	30.0	42.1	51.3	46.3	31.0	43.1	21.4	19.2	18.1	17.4	9.9	1.0
25.....	28.9	42.5	51.4	46.1	30.7	43.1	21.5	18.9	18.3	17.0	9.4	0.7
26.....	27.8	43.2	51.6	45.9	30.7	43.1	21.9	18.5	18.4	16.5	9.0	0.5
27.....	26.6	43.5	51.8	45.8	30.8	43.1	22.2	18.2	18.4	16.0	8.6	0.2
28.....	25.7	44.2	51.8	45.5	30.8	43.1	22.2	18.0	18.3	15.6	8.2	0.2
29.....	24.7		51.6	45.3	31.0	43.0	22.2	17.8	18.0	15.2	8.0	1.0
30.....	23.9		51.5	45.1	31.0	42.8	21.6	17.7	17.5	15.0	7.9	1.9
31.....	23.0		51.4		31.3		21.4	17.6		14.8		2.9
<b>Means.</b>	<b>34.0</b>	<b>33.0</b>	<b>48.6</b>	<b>48.5</b>	<b>38.7</b>	<b>39.3</b>	<b>29.1</b>	<b>19.0</b>	<b>16.5</b>	<b>15.5</b>	<b>11.5</b>	<b>4.2</b>
<b>1904</b>												
1.....	3.8	20.2	21.0	36.8	45.4	30.2	36.5	29.5	11.8	8.4	2.9	2.3
2.....	4.8	22.3	20.5	37.3	45.1	28.8	35.8	28.2	12.2	8.3	2.7	2.1
3.....	5.5	23.7	20.5	38.2	44.9	27.5	35.0	26.7	12.4	8.1	3.3	2.0
4.....	6.1	24.7	20.3	38.6	44.5	26.8	34.0	25.0	12.2	7.9	3.4	1.9
5.....	6.5	25.6	20.3	39.3	44.2	26.0	33.2	23.4	11.9	7.9	3.5	1.7
6.....	7.0	26.2	20.5	39.9	43.9	26.0	32.6	21.9	11.3	8.1	3.7	1.7
7.....	7.0	26.7	20.6	40.4	43.8	26.5	32.0	20.5	10.6	8.4	3.8	1.8
8.....	7.2	27.2	20.6	41.0	43.6	27.2	31.7	19.0	9.9	8.6	4.1	1.8
9.....	7.3	27.0	20.7	41.5	43.6	28.7	31.5	17.8	9.2	8.7	4.3	1.6
10.....	7.4	26.8	20.9	42.0	43.3	30.2	31.1	16.7	8.7	8.7	4.5	1.0
11.....	7.5	26.2	21.0	42.5	43.4	31.5	30.9	15.9	8.2	8.7	4.7	0.8
12.....	7.2	25.3	21.1	43.1	43.3	32.7	30.5	15.2	7.9	8.8	4.5	0.7
13.....	6.9	24.4	21.4	43.6	43.2	33.9	30.3	14.8	7.5	9.1	4.4	0.6
14.....	6.5	23.2	22.3	44.0	43.4	34.9	30.2	14.1	7.4	9.0	4.3	0.5
15.....	6.1	22.0	23.4	44.7	43.4	35.8	30.2	13.5	7.2	8.5	4.2	0.5
16.....	5.8	21.0	24.7	45.0	43.3	36.5	30.3	12.8	6.9	7.8	4.0	0.4
17.....	5.5	20.2	26.3	45.3	43.2	37.2	30.9	12.3	6.6	7.0	3.9	0.4
18.....	5.1	19.8	27.8	45.8	43.1	37.7	31.5	11.8	6.4	6.3	3.8	0.4
19.....	4.7	19.9	29.2	46.1	43.0	38.1	32.2	11.3	6.2	5.8	3.7	0.5
20.....	4.3	20.0	30.4	46.4	42.9	38.6	32.8	10.9	6.0	5.3	3.7	0.8
21.....	4.0	20.4	31.4	46.6	42.6	38.8	33.3	10.6	5.9	5.0	3.6	0.8
22.....	3.7	20.8	32.5	46.6	42.2	38.8	33.8	10.2	5.8	4.6	3.6	1.0
23.....	3.5	21.4	33.4	46.6	41.5	38.9	34.0	10.0	5.7	4.6	3.7	0.9
24.....	3.4	21.8	33.8	46.9	40.8	38.8	34.2	9.9	5.6	4.0	3.7	0.8
25.....	3.4	22.2	34.4	46.9	39.9	38.7	34.3	9.8	5.6	3.6	3.8	0.6
26.....	3.7	22.4	34.6	46.8	38.5	38.6	34.1	9.7	5.8	3.6	3.4	0.2
27.....	4.5	22.3	35.0	46.4	37.3	38.3	33.9	9.8	6.3	3.5	3.2	0.3
28.....	5.5	22.0	35.1	46.3	36.0	38.0	33.5	10.0	7.0	3.5	2.9	0.4
29.....	8.7	21.5	35.4	46.0	34.5	37.6	32.9	10.5	7.7	3.3	2.7	0.6
30.....	13.8		35.6	45.7	33.2	37.1	32.0	11.0	8.3	3.2	2.6	1.4
31.....	17.4		36.2		31.7		30.9	11.5		3.0		2.2
<b>Means.</b>	<b>6.3</b>	<b>23.0</b>	<b>26.8</b>	<b>43.5</b>	<b>41.7</b>	<b>33.6</b>	<b>32.6</b>	<b>15.3</b>	<b>8.1</b>	<b>6.5</b>	<b>3.7</b>	<b>1.1</b>



## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, NATCHEZ, MISS.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....								21.9	18.4	18.1	15.8	10.1
2.....								21.7	18.0	17.6	15.5	10.0
3.....								21.6	17.6	17.1	15.3	9.9
4.....								21.6	17.1	16.3	15.0	9.8
5.....								21.5	16.8	15.3	14.6	9.7
6.....							40.0	21.4	16.3	15.1	14.4	9.6
7.....							39.4	21.2	16.0	15.0	14.2	9.5
8.....							38.2	20.9	15.8	15.0	13.9	9.5
9.....							37.0	20.5	15.6	14.9	13.7	9.5
10.....							35.7	20.0	16.0	14.7	13.6	9.4
11.....							34.4	19.6	16.1	14.7	13.4	9.2
12.....							33.6	19.2	16.6	14.8	13.2	8.9
13.....							32.3	18.9	17.0	14.8	13.0	8.6
14.....							31.1	18.5	17.1	14.9	13.0	8.3
15.....							30.2	18.3	17.1	15.1	13.0	7.9
16.....							29.2	18.1	17.0	15.4	13.3	7.5
17.....							28.3	18.2	16.9	15.7	13.5	7.1
18.....							27.4	18.4	16.7	16.3	13.5	6.8
19.....							26.3	18.7	16.6	16.7	13.5	6.5
20.....							25.6	19.0	16.7	17.3	13.4	6.3
21.....							24.9	19.3	16.9	17.7	13.1	6.0
22.....							24.1	19.5	17.2	18.0	12.8	5.7
23.....							23.4	19.7	17.6	18.1	12.5	5.4
24.....							22.8	19.7	17.9	18.1	12.1	5.2
25.....							22.5	19.6	18.3	17.9	11.9	4.8
26.....							22.5	19.4	18.5	17.6	11.3	4.5
27.....							22.5	19.2	18.6	17.3	11.0	4.3
28.....							22.6	19.0	18.6	16.8	10.8	4.2
29.....							22.5	18.9	18.5	16.5	10.4	4.4
30.....							22.3	18.7	18.3	16.3	10.4	4.7
31.....							22.1	18.6	.....	15.9	.....	5.3
<b>Means.</b>							28.5	19.7	17.2	16.3	13.2	7.4
<b>1904</b>												
1.....	6.0	17.7	22.3	35.0	45.2	33.8	38.2	32.5	13.5	10.4	6.3	6.1
2.....	6.8	20.0	22.0	35.7	45.1	32.4	37.6	31.4	14.0	10.6	6.2	5.9
3.....	7.5	21.9	21.7	36.3	44.8	31.8	36.7	30.2	14.3	10.6	6.3	5.7
4.....	8.2	23.3	21.5	36.7	44.6	30.0	36.3	28.9	14.5	10.5	6.4	5.6
5.....	8.6	24.4	21.4	37.3	44.3	29.0	35.7	27.5	14.4	10.3	6.5	5.5
6.....	9.1	25.3	21.6	37.8	44.1	28.4	35.1	26.1	14.1	10.3	6.6	5.3
7.....	9.4	26.0	21.7	38.3	43.9	28.0	34.5	24.6	13.6	10.4	6.8	5.2
8.....	9.6	26.5	21.8	39.0	43.7	28.1	34.0	23.5	13.1	10.7	6.9	5.1
9.....	9.7	26.8	21.8	39.5	43.5	28.7	33.6	22.2	12.4	10.9	7.2	5.0
10.....	9.8	26.9	21.8	39.9	43.3	29.7	33.2	21.0	11.8	11.1	7.3	4.9
11.....	9.9	26.7	21.9	40.2	43.3	30.8	33.2	19.9	11.2	11.1	7.5	4.8
12.....	9.9	26.3	22.0	40.7	43.3	32.0	32.8	19.9	10.8	11.1	7.6	4.7
13.....	9.7	25.6	22.2	41.1	43.3	33.0	32.6	18.4	10.4	11.2	7.6	4.5
14.....	9.6	24.7	22.5	41.7	43.3	34.0	32.4	17.7	10.2	11.6	7.6	4.4
15.....	9.3	23.9	23.0	42.2	43.2	34.9	32.1	17.1	10.0	11.5	7.5	4.4
16.....	9.0	22.9	23.9	42.7	43.1	35.7	31.9	16.4	9.7	11.0	7.4	4.3
17.....	8.7	22.0	25.0	43.3	43.0	36.4	32.1	15.7	9.4	10.5	7.3	4.3
18.....	8.5	21.4	26.4	43.6	43.0	37.0	32.3	15.0	9.2	10.0	7.2	4.3
19.....	8.2	21.0	27.6	44.0	42.9	37.6	32.7	14.5	9.0	9.4	7.1	4.3
20.....	7.9	20.8	29.0	44.3	42.8	38.0	33.3	14.0	8.8	8.8	7.1	4.4
21.....	7.6	20.9	30.0	44.6	42.7	38.3	33.9	13.5	8.6	8.3	7.1	4.5
22.....	7.4	21.2	30.9	44.9	42.4	38.6	34.2	13.2	8.5	8.1	7.1	4.7
23.....	7.1	21.5	31.6	45.2	42.2	38.8	34.7	12.9	8.4	7.6	7.1	4.7
24.....	7.0	21.9	32.3	45.4	41.8	38.9	35.0	12.6	8.2	7.3	7.0	4.7
25.....	6.7	22.3	32.7	45.6	41.2	38.9	35.0	12.3	8.3	7.1	6.9	4.6
26.....	6.7	22.7	33.1	45.6	40.6	38.9	35.1	12.4	8.2	6.8	6.8	4.4
27.....	6.9	22.8	33.6	45.5	39.7	38.9	35.0	12.3	8.3	6.6	6.6	4.5
28.....	7.5	22.8	33.8	45.5	38.7	38.8	34.8	12.3	8.7	6.5	6.5	4.5
29.....	9.1	22.8	34.0	45.5	37.5	38.6	34.5	12.4	9.3	6.4	6.3	4.5
30.....	11.6	.....	34.3	45.4	36.6	38.6	34.1	12.9	9.9	6.3	6.2	4.8
31.....	14.7	.....	34.6	.....	35.1	.....	33.3	13.2	.....	6.3	.....	5.3
<b>Means.</b>	8.6	23.2	26.5	41.8	42.3	34.6	34.2	18.6	10.7	9.3	6.9	4.8

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, BATON ROUGE, LA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1							30.5	14.5	10.5	10.2	9.2	5.4
2							30.4	14.3	10.3	10.1	9.0	5.5
3							30.5	14.1	9.4	9.8	8.8	5.6
4							30.3	14.0	9.4	9.4	8.7	5.6
5							30.0	13.8	8.9	8.9	8.5	5.5
6							29.7	13.5	8.6	8.6	8.3	5.5
7							29.3	13.4	8.3	8.4	8.1	5.2
8							28.8	13.4	8.1	8.1	8.0	5.2
9							28.2	12.9	8.1	7.9	7.9	5.3
10							27.6	12.4	8.3	7.7	7.8	5.2
11							26.5	12.0	8.5	7.7	7.6	4.9
12							25.6	11.6	8.9	7.7	7.4	4.8
13							25.0	11.4	8.9	7.8	7.3	4.8
14							24.2	11.2	8.9	7.9	7.2	4.8
15							23.5	10.9	8.9	8.1	7.2	4.5
16							22.7	10.6	8.8	8.5	7.4	4.3
17							22.0	10.5	8.8	8.9	7.6	4.0
18							21.2	10.4	8.8	9.1	7.7	3.9
19							20.3	10.6	8.9	9.3	7.6	3.9
20							19.6	10.9	8.9	9.6	7.6	3.9
21							19.0	11.2	9.0	9.9	7.5	3.3
22							18.2	11.4	8.9	10.2	7.4	3.2
23							17.4	11.6	9.0	10.4	7.2	2.9
24							16.7	11.8	9.2	10.5	7.1	3.1
25							16.1	11.9	9.4	10.5	6.8	3.0
26							15.8	11.9	9.6	10.2	6.6	2.6
27							15.5	11.7	9.9	10.0	6.3	2.1
28							15.3	11.5	10.1	9.7	5.9	2.0
29							15.2	11.2	10.2	9.5	5.7	2.1
30							15.0	10.9	10.2	9.3	5.5	2.1
31							14.8	10.7		9.2		2.4
Means							22.7	12.0	9.1	9.1	7.5	4.1
<b>1904</b>												
1	2.8		15.2	25.3	33.6	26.6	28.3	24.2	6.6	5.2	3.1	3.2
2	3.5	10.8	15.0	25.6	33.7	25.6	28.1	23.6	7.1	5.6	3.5	3.2
3	3.6	12.7	14.8	26.1	33.5	24.6	27.8	22.8	7.4	5.5	3.5	3.1
4	4.1	14.2	14.7	26.5	33.4	23.8	27.6	21.8	7.6	5.5	3.0	3.0
5	4.2	15.4	14.5	26.9	33.3	22.8	27.2	20.7	7.7	5.3	2.6	3.3
6	4.6	16.5	14.5	27.1	33.2	22.0	26.8	19.5	7.7	5.4	2.6	3.0
7	4.8	17.2	14.5	27.4	32.9	21.3	26.4	18.4	7.6	5.6	2.9	3.0
8	4.7	17.7	14.5	27.8	32.7	20.9	26.0	17.2	7.2	5.7	3.1	2.8
9	4.8	18.1	14.6	28.1	32.6	20.7	25.6	15.8	6.8	6.1	3.5	2.8
10	5.1	18.6	14.6	28.4	32.6	20.9	25.3	14.8	6.3	6.2	3.7	3.0
11	5.1	18.6	14.6	28.6	32.3	21.6	25.1	13.8	5.8	6.1	3.5	2.7
12	5.2	18.4	14.6	29.0	32.3	22.6	24.8	12.9	5.5	6.1	3.5	2.7
13	5.2	18.0	14.6	29.4	32.1	23.4	24.6	12.1	5.4	6.1	3.3	2.7
14	4.9	17.3	14.7	29.7	32.1	24.3	24.3	11.3	5.2	6.1	3.0	2.7
15	4.8	16.7	14.9	30.0	32.1	25.0	24.0	10.6	5.0	6.4	3.0	2.1
16	4.8	16.0	15.3	30.4	32.0	25.5	23.6	9.9	4.8	6.4	3.0	2.0
17	4.7	15.3	16.0	30.9	32.0	25.9	23.5	9.3	4.6	6.3	3.1	2.3
18	4.6	14.7	17.1	31.1	31.9	26.3	23.6	8.7	4.6	6.0	3.1	1.6
19	4.5	14.2	18.1	31.5	32.0	26.7	23.6	8.1	4.4	5.4	3.1	2.0
20	4.7	13.8	19.2	31.9	31.9	27.1	23.9	7.7	4.4	4.9	3.3	1.9
21	4.7	13.9	20.2	32.1	31.8	27.4	24.2	7.3	4.3	4.5	3.5	2.3
22	4.9	13.8	21.2	32.5	31.8	27.7	24.4	6.9	4.2	4.1	3.6	2.2
23	4.1	13.8	21.8	32.7	31.5	27.9	24.7	6.5	4.4	3.4	3.6	2.9
24	3.6	14.0	22.5	33.0	31.4	28.0	25.0	6.3	4.9	3.3	3.4	3.0
25	3.4	14.4	22.9	33.3	31.1	28.2	25.1	6.1	4.9	3.4	3.6	2.3
26	3.5	14.6	23.3	33.4	30.8	28.3	25.1	6.0	4.6	3.7	3.5	2.8
27	3.4	15.0	23.6	33.5	30.4	28.3	25.1	6.0	4.4	3.3	3.4	3.4
28	4.1	15.2	24.0	33.6	29.9	28.3	25.1	5.9	4.5	3.3	3.3	1.9
29	4.3	15.3	24.3	33.7	29.1	28.3	25.0	5.9	4.7	3.2	3.3	1.8
30	5.0		24.6	33.7	28.3	28.4	24.9	6.0	4.9	3.1	3.3	1.9
31	6.8		24.9		27.5		24.6	6.2		3.3		2.5
Means	4.5	15.5	18.0	30.1	31.8	25.3	25.3	12.0	5.6	5.0	3.3	2.6

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, DONALDSONVILLE, LA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....							24.0	10.6	7.3	7.1	6.2	3.6
2.....							24.1	10.4	7.0	7.1	6.1	3.7
3.....							24.1	10.3	6.8	6.7	6.0	3.7
4.....							23.9	10.1	6.3	6.5	5.8	3.9
5.....							23.7	10.0	6.0	6.1	5.9	3.7
6.....							23.4	9.9	5.7	5.8	5.5	3.8
7.....							23.0	9.7	5.5	5.8	5.6	3.6
8.....							22.6	9.6	5.4	5.6	5.5	3.7
9.....							22.2	9.2	5.7	5.5	5.6	3.8
10.....							21.5	8.8	5.9	5.3	5.6	3.5
11.....							20.8	8.3	6.3	5.2	5.5	3.4
12.....							20.1	8.1	6.3	5.3	5.3	3.4
13.....							19.6	8.0	6.0	5.3	5.2	3.3
14.....							18.9	7.9	6.0	5.3	5.1	3.3
15.....							17.9	7.7	5.8	5.6	5.0	3.0
16.....							17.6	7.5	5.9	5.9	5.0	3.0
17.....							16.9	7.3	5.9	6.3	5.3	2.8
18.....							16.3	7.3	5.9	6.3	5.3	3.1
19.....							15.6	7.4	6.1	6.3	5.2	2.6
20.....							14.9	7.6	6.0	6.4	5.1	3.1
21.....							14.2	7.7	6.2	6.7	5.1	2.6
22.....							13.8	8.0	6.1	6.9	5.2	2.6
23.....							13.0	8.1	6.1	7.1	5.0	2.5
24.....							12.4	8.3	6.2	7.3	5.0	2.5
25.....							12.0	8.4	6.2	7.2	4.5	2.7
26.....							11.6	8.4	6.3	6.9	4.4	2.7
27.....							11.4	8.3	6.5	7.0	4.3	1.5
28.....							11.3	8.1	6.7	6.5	4.0	1.6
29.....							11.2	7.9	6.8	6.4	3.8	1.6
30.....							11.0	7.7	6.9	6.3	3.7	1.5
31.....							10.8	7.5	.....	6.3	.....	1.7
<b>Means.</b>							17.5	8.5	6.2	6.3	5.2	3.0
<b>1904</b>												
1.....	2.0	5.4	10.9	19.6	27.0	21.0	22.1	18.6	4.6	4.2	2.9	2.9
2.....	2.6	7.1	10.7	20.0	27.1	20.2	22.0	18.3	5.1	4.3	2.6	2.9
3.....	2.7	8.7	10.5	20.4	26.9	19.3	21.7	17.7	5.4	4.3	3.5	2.5
4.....	3.2	10.0	10.4	20.8	26.9	18.7	21.5	16.9	5.4	4.2	2.8	2.7
5.....	3.1	11.0	10.2	21.1	26.7	17.9	21.2	16.0	5.3	4.1	2.4	2.8
6.....	3.3	11.9	10.2	21.3	26.6	17.0	21.0	15.0	5.3	4.1	2.3	2.5
7.....	3.2	12.4	10.1	21.6	26.5	16.4	20.6	14.0	5.3	4.3	2.5	2.6
8.....	2.9	12.7	10.1	22.0	26.4	16.0	20.3	13.0	5.1	4.4	2.6	2.8
9.....	3.2	13.1	10.2	22.2	26.2	15.8	20.0	12.0	4.9	4.7	2.6	2.6
10.....	3.3	13.4	10.2	22.5	26.1	15.8	19.7	11.0	4.5	4.7	3.4	2.8
11.....	3.3	13.5	10.2	22.7	26.0	16.3	19.5	10.1	4.1	4.6	3.2	2.6
12.....	3.4	13.3	10.3	23.1	25.8	17.2	19.3	9.4	4.1	4.7	3.1	2.5
13.....	3.4	13.1	10.3	23.4	25.7	18.0	19.0	8.9	4.1	4.8	3.0	2.1
14.....	2.8	12.5	10.3	23.7	25.7	18.8	18.8	9.2	4.1	4.8	2.6	2.6
15.....	3.0	12.0	10.5	24.0	25.7	19.4	18.5	7.5	3.9	5.0	2.4	1.9
16.....	3.1	11.3	10.8	24.2	25.6	19.9	18.3	7.0	3.9	5.0	2.6	1.7
17.....	3.0	10.8	11.3	24.7	25.5	20.2	18.2	6.5	3.6	5.0	2.5	1.8
18.....	3.0	10.4	12.3	25.0	25.5	20.5	18.1	6.0	3.9	4.6	2.5	1.3
19.....	3.0	9.8	13.0	25.3	25.4	20.9	18.1	5.7	3.6	4.0	2.4	1.6
20.....	3.5	9.7	13.9	25.5	25.4	21.2	18.2	5.5	3.6	3.6	2.6	1.5
21.....	3.3	9.7	15.0	25.7	25.3	21.5	18.6	5.2	3.4	3.4	2.1	1.2
22.....	3.8	9.8	15.8	26.0	25.3	21.7	18.8	4.8	3.3	3.2	3.0	1.6
23.....	3.3	9.6	16.5	26.4	25.1	21.9	19.0	4.4	3.5	2.8	3.0	2.2
24.....	2.6	9.7	17.2	26.6	25.1	22.0	19.3	4.3	4.2	3.1	2.9	2.7
25.....	2.4	10.0	17.6	26.8	24.9	22.1	19.4	4.1	4.0	3.2	3.1	2.6
26.....	2.4	10.3	18.0	26.9	24.6	22.2	19.4	4.1	3.9	3.5	3.0	2.7
27.....	2.3	10.5	18.3	26.9	24.2	22.2	19.4	4.2	3.6	3.3	2.9	3.3
28.....	2.8	10.7	18.6	27.1	23.8	22.2	19.4	4.2	3.8	2.7	2.9	1.6
29.....	2.8	10.8	19.0	27.1	23.1	22.2	19.4	4.2	3.9	2.6	2.9	1.5
30.....	3.3	.....	19.2	27.1	22.4	22.2	19.3	4.2	4.0	3.3	3.0	2.0
31.....	4.2	.....	19.4	.....	21.7	.....	19.1	4.3	.....	2.9	.....	1.9
<b>Means.</b>	3.0	10.8	13.3	24.0	25.4	19.7	19.6	8.9	4.2	4.0	2.7	1.9

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, NEW ORLEANS, LA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	4.0	5.8	9.7	13.5	12.9	7.4	9.9	5.7	3.8	4.0	4.4	5.0
2.....	4.3	6.0	9.8	13.4	12.8	7.5	9.9	5.2	3.8	4.0	4.4	5.5
3.....	4.2	6.3	9.8	13.2	13.0	7.5	10.0	5.4	4.3	4.2	4.4	6.3
4.....	4.4	6.8	10.0	13.1	12.9	7.4	10.3	5.6	4.5	4.3	3.9	6.7
5.....	4.5	6.7	10.2	13.1	13.0	7.0	10.6	5.9	4.4	4.3	3.6	7.0
6.....	4.5	6.7	10.3	13.3	13.0	7.2	10.9	6.3	4.4	4.5	3.7	7.2
7.....	4.5	6.6	10.1	13.2	13.0	7.0	11.2	6.1	5.4	4.0	3.7	7.6
8.....	4.2	6.5	10.2	13.1	13.1	7.0	11.4	6.1	6.8	4.2	4.4	8.0
9.....	4.2	6.0	10.2	13.0	13.1	6.5	11.6	6.1	5.7	4.0	4.5	8.4
10.....	3.9	5.8	10.2	12.8	12.8	6.6	11.6	5.9	4.7	4.0	4.7	8.7
11.....	4.4	5.5	10.1	13.0	12.8	6.9	11.8	5.8	4.7	4.5	4.7	8.9
12.....	3.9	5.5	10.1	12.7	12.5	7.2	11.7	5.8	4.0	4.5	4.7	9.2
13.....	3.5	5.5	10.2	12.2	12.5	7.6	11.6	5.7	5.4	4.6	4.5	9.8
14.....	3.2	5.0	10.1	11.8	12.0	7.6	11.6	5.5	4.6	4.5	4.2	9.6
15.....	3.4	4.8	10.4	11.6	11.9	7.6	11.5	5.4	4.7	4.3	4.3	9.6
16.....	3.4	4.8	10.6	11.7	11.6	7.6	11.0	5.3	4.4	4.2	4.1	9.6
17.....	3.5	4.7	10.7	12.5	11.4	8.1	10.7	5.2	4.4	4.0	4.1	9.2
18.....	3.8	4.7	11.0	12.7	11.2	8.1	10.4	5.0	4.2	4.0	4.4	8.9
19.....	3.7	5.2	11.9	12.9	10.8	8.1	10.4	5.0	4.2	4.0	4.3	8.6
20.....	3.4	5.9	12.3	13.2	10.8	9.0	9.4	5.0	4.2	4.0	4.4	8.5
21.....	3.1	6.9	12.4	13.2	10.3	9.0	8.8	4.5	4.0	4.2	4.4	8.1
22.....	3.0	7.2	12.7	12.8	10.1	9.0	8.7	4.4	3.5	4.0	4.2	7.8
23.....	3.1	7.6	13.0	12.8	9.8	9.1	7.7	4.4	3.5	4.2	4.2	7.8
24.....	3.3	8.3	13.2	12.7	9.7	9.7	7.0	3.9	3.5	4.2	4.2	7.8
25.....	3.4	8.4	13.5	12.9	9.1	9.6	6.5	3.8	3.4	4.0	4.2	7.1
26.....	3.5	8.7	13.5	13.0	9.0	9.7	6.3	3.3	3.5	4.0	4.2	6.8
27.....	3.9	8.9	13.8	12.8	8.4	9.7	5.9	3.7	3.8	4.3	4.1	6.5
28.....	4.4	9.7	13.9	12.8	8.3	9.7	5.5	3.5	4.1	4.3	4.1	6.7
29.....	4.6	.....	13.9	12.9	7.9	9.8	5.8	3.5	4.0	4.3	4.2	6.4
30.....	5.0	.....	14.0	12.8	7.5	9.8	5.6	3.5	4.0	4.4	4.5	6.4
31.....	5.5	.....	13.9	.....	7.4	.....	5.4	3.5	.....	4.5	.....	5.7
<b>Means.</b>	<b>3.9</b>	<b>6.4</b>	<b>11.5</b>	<b>12.8</b>	<b>11.1</b>	<b>8.1</b>	<b>9.4</b>	<b>5.0</b>	<b>4.3</b>	<b>4.2</b>	<b>4.3</b>	<b>7.7</b>
<b>1901</b>												
1.....	5.7	7.7	6.2	11.1	13.7	9.0	6.4	4.2	4.7	4.5	3.4	2.9
2.....	5.5	7.7	6.1	11.2	13.8	8.8	6.2	3.8	5.3	4.6	4.0	3.0
3.....	5.5	7.8	6.1	11.0	13.9	8.6	6.3	4.2	5.4	5.0	4.0	3.2
4.....	4.9	7.3	5.9	11.1	14.1	8.4	6.2	4.1	5.9	5.2	3.6	3.1
5.....	4.5	7.0	5.0	11.0	13.9	8.7	6.0	4.0	5.7	4.9	3.7	3.0
6.....	4.5	7.0	5.4	10.8	13.9	8.6	6.4	3.9	5.9	4.8	3.7	2.9
7.....	4.2	6.7	4.8	10.8	13.9	8.0	6.7	3.8	5.8	4.7	3.7	2.9
8.....	4.2	6.7	4.8	10.9	13.9	9.1	7.3	4.3	5.5	4.6	3.5	3.0
9.....	4.6	6.5	4.6	10.9	14.0	9.4	7.7	4.3	5.3	4.6	3.4	3.1
10.....	4.6	6.4	5.0	11.1	13.9	9.6	8.2	4.1	5.1	4.1	3.5	3.0
11.....	4.7	6.5	4.2	11.3	13.9	10.0	7.6	4.0	5.0	4.2	3.5	2.9
12.....	4.9	6.5	3.9	11.3	13.9	10.0	7.6	3.8	4.7	4.1	3.2	3.1
13.....	5.1	6.7	3.8	11.9	13.9	10.0	7.4	4.0	4.4	4.2	3.1	3.2
14.....	5.0	6.7	3.8	12.0	14.2	10.1	7.4	5.9	4.3	3.9	3.2	3.3
15.....	4.9	6.7	3.8	12.2	14.0	10.1	6.9	11.4	4.4	4.0	3.3	3.5
16.....	5.2	7.1	3.7	12.2	14.0	10.0	6.0	4.2	4.8	3.8	3.4	3.7
17.....	5.1	7.3	3.5	12.5	13.9	9.7	6.0	4.0	5.4	3.8	3.3	3.8
18.....	5.5	7.5	4.4	13.3	14.0	9.5	5.7	3.7	5.4	4.0	3.4	3.9
19.....	4.6	7.8	5.2	13.5	13.9	9.3	5.2	3.9	5.3	4.0	3.3	3.9
20.....	4.6	7.7	5.2	12.8	13.9	9.2	5.0	3.8	5.0	3.9	3.0	3.8
21.....	5.1	7.7	7.0	12.7	13.8	9.0	5.0	4.0	4.9	4.2	3.0	3.1
22.....	5.4	7.4	7.8	12.8	13.6	8.8	5.0	4.0	4.8	4.1	2.8	3.0
23.....	5.9	7.5	9.1	12.9	13.1	8.7	4.7	4.0	4.8	3.8	2.8	3.0
24.....	6.2	7.1	9.4	13.0	12.7	8.4	5.0	4.1	4.8	4.0	2.9	3.1
25.....	6.6	7.0	10.0	13.0	12.6	8.3	5.1	4.0	4.5	3.9	3.0	3.2
26.....	6.9	7.0	10.1	13.3	11.9	8.0	5.0	4.0	4.4	3.8	3.0	3.1
27.....	7.3	6.7	10.3	13.4	11.3	7.8	4.8	4.0	4.8	3.8	3.1	3.3
28.....	7.5	6.4	10.4	13.7	10.9	7.4	4.8	4.4	4.9	3.5	2.8	4.0
29.....	7.7	.....	10.4	13.4	10.1	7.0	4.4	4.1	4.3	3.6	2.9	5.9
30.....	8.0	.....	10.7	13.6	9.7	7.0	4.3	4.5	4.7	3.5	2.9	6.0
31.....	7.9	.....	10.9	.....	9.4	.....	4.3	4.8	.....	3.6	.....	5.9
<b>Means.</b>	<b>5.6</b>	<b>7.1</b>	<b>6.5</b>	<b>12.2</b>	<b>13.2</b>	<b>8.9</b>	<b>6.0</b>	<b>4.4</b>	<b>5.0</b>	<b>4.2</b>	<b>3.3</b>	<b>3.5</b>

## DESCRIPTION OF RIVER GAGES, ETC.

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## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, NEW ORLEANS, LA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	5.9	3.9	6.4	14.0	13.1	5.4	6.0	8.8	4.8	4.0	4.5	4.2
2.....	6.0	3.8	6.0	14.0	13.0	5.6	5.7	8.8	4.8	3.7	4.5	5.5
3.....	6.0	3.8	6.2	14.2	12.7	6.2	5.7	8.7	4.9	4.0	4.9	5.3
4.....	5.9	3.9	6.1	14.4	12.5	6.1	5.6	8.6	4.9	4.0	4.3	5.8
5.....	5.7	4.3	6.0	14.3	12.6	6.3	5.5	8.7	5.0	4.0	5.4	5.3
6.....	5.5	4.7	5.6	14.3	12.3	6.7	5.9	8.8	5.0	4.1	5.8	5.2
7.....	5.4	5.2	5.2	14.5	11.3	7.0	5.5	9.1	5.0	4.4	4.9	5.1
8.....	5.0	5.9	5.5	14.4	11.4	7.2	5.5	9.0	5.2	4.4	4.7	5.0
9.....	4.8	6.2	5.8	14.5	10.5	7.5	5.7	9.1	5.2	4.0	4.6	6.0
10.....	4.8	7.2	6.0	14.4	10.0	7.7	5.9	8.9	5.5	4.6	4.2	6.2
11.....	5.0	7.8	6.3	14.3	9.5	7.9	5.9	8.8	5.5	5.6	4.1	6.5
12.....	5.3	8.4	7.8	14.2	9.2	7.9	6.6	8.7	5.5	5.6	4.1	7.0
13.....	6.0	9.0	8.4	14.5	9.0	8.0	7.3	8.5	5.5	5.0	4.0	7.4
14.....	6.4	9.4	8.9	14.7	9.0	8.0	7.5	8.3	5.7	4.8	4.2	7.5
15.....	6.9	9.8	10.3	14.5	8.8	8.0	7.9	7.8	5.4	5.1	3.6	8.0
16.....	7.1	9.9	10.5	14.5	8.9	7.6	8.0	7.5	5.5	5.0	3.7	8.5
17.....	7.3	10.0	10.8	14.7	8.8	7.4	8.2	7.3	5.5	5.0	4.0	8.8
18.....	7.2	9.9	10.9	14.8	8.6	7.0	8.4	7.0	5.4	5.0	4.1	8.7
19.....	7.3	10.0	11.1	14.9	8.5	6.9	8.6	6.9	5.3	5.0	4.1	8.9
20.....	7.2	10.4	11.4	14.8	8.4	7.0	8.4	6.6	5.0	5.4	4.1	9.0
21.....	7.0	9.8	11.8	14.8	7.9	6.9	8.5	6.5	5.3	6.0	4.2	9.1
22.....	7.2	9.4	12.1	14.7	7.5	6.9	8.6	6.3	5.0	6.3	4.2	9.5
23.....	6.9	9.0	12.3	14.5	7.3	6.9	8.5	6.2	4.9	6.5	4.2	10.2
24.....	5.8	8.9	12.8	14.4	6.8	6.8	8.5	5.8	4.9	6.0	4.1	11.0
25.....	5.7	8.0	12.9	14.3	6.4	6.6	8.5	5.7	4.8	5.9	4.2	11.5
26.....	5.0	7.4	13.1	14.1	6.2	6.6	8.6	5.4	4.3	6.0	4.2	12.0
27.....	4.9	7.1	13.0	14.0	6.0	6.8	8.8	5.4	4.2	5.0	3.9	12.1
28.....	4.4	6.8	13.9	13.8	5.9	6.9	8.9	5.4	4.0	4.9	3.8	12.5
29.....	4.2	.....	13.8	13.6	5.7	6.7	8.8	5.0	4.3	4.5	3.9	12.0
30.....	4.2	.....	14.0	13.4	5.6	6.6	8.9	4.9	4.0	4.4	4.1	13.0
31.....	3.8	.....	13.9	.....	5.5	.....	8.8	4.8	.....	4.2	.....	13.0
<b>Means.</b>	<b>5.8</b>	<b>7.5</b>	<b>9.6</b>	<b>14.4</b>	<b>9.0</b>	<b>7.0</b>	<b>7.4</b>	<b>7.3</b>	<b>5.0</b>	<b>4.9</b>	<b>4.3</b>	<b>8.4</b>
<b>1903</b>												
1.....	13.1	10.5	16.3	20.1	18.4	12.0	15.2	7.3	5.7	5.5	5.3	4.0
2.....	14.3	10.5	16.5	20.1	18.4	12.9	15.2	7.2	5.6	5.5	5.0	4.7
3.....	14.0	10.2	16.7	20.3	18.3	12.9	15.4	7.2	5.6	5.6	4.7	3.9
4.....	14.3	10.0	17.2	20.1	18.2	13.0	15.2	7.0	5.5	5.7	4.6	3.8
5.....	14.4	9.5	17.2	20.3	18.2	13.0	15.0	7.0	5.3	4.8	4.5	4.2
6.....	14.5	9.2	17.3	20.3	18.2	13.0	14.8	6.8	4.9	4.8	4.4	4.4
7.....	14.4	9.2	17.6	20.3	18.2	13.0	14.6	6.7	4.6	4.9	4.2	4.0
8.....	14.5	9.1	17.6	20.2	18.0	13.1	14.5	6.6	4.5	4.9	4.5	3.9
9.....	14.6	9.8	18.1	20.1	18.0	13.2	14.0	6.5	4.5	4.7	4.7	3.4
10.....	14.1	10.3	18.3	19.9	17.9	13.3	13.7	6.3	4.3	4.6	4.9	3.6
11.....	15.0	11.8	18.4	20.0	17.8	13.6	13.5	6.0	4.6	4.8	5.0	3.6
12.....	14.2	11.6	18.7	20.0	17.7	13.7	13.0	5.8	5.6	4.9	5.0	3.5
13.....	14.0	12.0	18.8	19.9	17.6	14.0	12.9	5.7	5.3	4.8	4.5	4.2
14.....	14.0	12.6	19.2	19.9	17.5	14.1	12.5	5.7	4.7	5.0	4.2	4.2
15.....	13.9	13.0	19.3	19.7	17.5	14.4	12.2	5.7	4.5	5.1	4.3	4.0
16.....	13.9	13.9	19.2	19.7	17.3	14.5	11.5	5.8	4.6	5.1	4.3	4.1
17.....	13.9	13.9	19.2	19.6	17.1	14.6	11.2	5.7	4.4	4.7	4.0	4.1
18.....	13.1	14.1	19.3	19.5	16.9	14.7	11.0	5.6	4.3	4.5	4.6	4.1
19.....	13.1	14.4	19.4	19.5	16.8	14.8	10.7	5.7	4.5	4.7	4.6	4.1
20.....	14.0	14.8	19.6	19.5	16.5	15.0	10.2	5.5	4.8	4.9	4.6	4.2
21.....	13.9	14.9	19.7	19.3	16.1	15.0	9.7	5.5	5.1	5.0	4.4	4.2
22.....	13.1	15.3	19.8	19.3	15.9	15.1	9.2	5.6	4.7	4.8	4.2	4.2
23.....	13.4	15.5	20.1	19.3	15.4	15.0	8.8	5.8	4.7	4.8	4.2	4.2
24.....	13.4	15.6	20.0	19.1	15.0	15.0	8.4	5.7	4.6	4.9	4.0	4.2
25.....	12.9	15.7	20.1	19.0	14.7	15.0	8.1	6.0	4.9	4.9	3.7	4.2
26.....	12.9	16.0	20.2	18.8	14.3	15.0	7.9	6.0	5.0	5.0	4.0	4.2
27.....	12.1	16.5	20.3	18.8	13.9	15.1	7.8	5.8	5.0	4.9	4.1	4.2
28.....	12.1	16.5	20.1	18.6	13.6	15.1	7.5	5.7	5.1	5.0	4.2	4.2
29.....	11.9	.....	20.2	18.5	13.4	15.1	7.5	5.7	5.0	5.0	3.9	4.1
30.....	11.5	.....	20.3	18.6	13.3	15.0	7.5	5.7	5.2	5.0	3.0	4.1
31.....	11.0	.....	20.2	.....	13.3	.....	7.4	5.7	.....	5.3	.....	4.0
<b>Means.</b>	<b>13.9</b>	<b>12.7</b>	<b>18.9</b>	<b>19.6</b>	<b>16.6</b>	<b>14.1</b>	<b>11.5</b>	<b>6.1</b>	<b>4.9</b>	<b>5.0</b>	<b>4.4</b>	<b>4.1</b>

### DESCRIPTION OF RIVER GAGES, ETC.

## MISSISSIPPI RIVER SYSTEM—MISSISSIPPI RIVER, NEW ORLEANS, LA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1904</b>												
1.....	4.1	3.8	7.2	12.4	17.4	13.7	14.2	12.4	4.4	4.6	4.3	3.8
2.....	4.1	4.7	7.1	12.5	17.6	13.0	14.0	12.1	4.8	4.7	4.8	3.8
3.....	4.1	5.6	7.0	12.8	17.2	12.7	14.0	11.8	4.9	4.8	4.5	3.4
4.....	4.1	6.5	7.0	13.1	17.2	12.4	13.8	11.4	4.9	4.7	3.8	3.4
5.....	4.1	7.0	6.7	13.4	17.1	11.8	13.7	10.9	5.0	4.5	3.3	3.4
6.....	4.1	7.5	6.7	13.6	17.2	11.4	13.7	10.3	5.0	4.6	3.2	3.1
7.....	3.6	7.8	6.5	13.8	17.2	11.0	13.4	9.7	4.9	4.6	3.2	2.8
8.....	3.3	8.0	6.5	14.2	16.9	10.7	13.3	9.0	4.7	4.6	3.4	2.8
9.....	3.2	8.2	6.6	14.4	16.9	10.5	13.2	8.5	4.5	4.5	3.7	3.0
10.....	3.3	8.4	6.6	14.5	16.8	10.5	12.9	7.9	4.4	4.6	4.1	3.6
11.....	3.0	8.5	6.7	14.6	16.7	10.8	12.7	7.3	4.2	4.5	4.0	3.2
12.....	3.0	8.5	6.8	14.7	16.6	11.3	12.6	6.7	4.2	4.8	4.0	3.4
13.....	2.9	8.3	6.8	15.1	16.6	11.8	12.5	6.4	4.5	5.0	3.8	3.1
14.....	2.7	7.9	6.9	15.2	16.6	12.4	12.3	6.0	4.4	4.9	3.4	3.4
15.....	2.7	7.5	6.9	15.3	16.5	12.8	12.1	5.7	4.3	5.2	3.3	3.2
16.....	2.8	7.2	7.0	15.6	16.4	13.0	12.0	5.5	4.4	5.3	3.6	2.8
17.....	3.1	7.0	7.4	15.9	16.4	13.2	12.1	5.2	4.3	5.3	3.2	2.8
18.....	3.1	6.9	8.0	16.2	16.3	13.5	11.9	5.0	4.5	4.9	3.3	2.3
19.....	3.2	6.6	8.4	16.1	16.2	13.6	12.0	4.9	4.3	4.5	3.2	2.4
20.....	3.7	6.5	8.8	16.3	16.1	13.8	12.1	4.9	4.3	4.1	3.4	2.1
21.....	4.1	6.7	9.4	16.4	16.1	14.0	12.2	4.7	4.2	3.9	3.4	2.5
22.....	4.5	6.3	9.9	16.5	16.1	14.2	12.4	4.4	4.0	3.5	3.5	2.4
23.....	3.3	6.2	10.2	16.9	16.1	14.3	12.5	4.2	4.1	3.3	3.4	3.0
24.....	2.9	6.2	10.7	16.9	15.9	14.4	12.7	4.1	4.7	3.5	3.3	3.1
25.....	2.7	6.4	11.0	17.1	16.0	14.3	12.7	3.9	4.6	3.6	3.6	3.4
26.....	2.7	6.6	11.2	17.3	15.8	14.4	12.7	3.9	4.3	4.0	3.6	3.6
27.....	2.6	6.8	11.5	17.3	15.5	14.3	12.7	4.0	4.1	3.9	3.6	4.3
28.....	2.9	6.9	11.8	17.4	15.2	14.2	12.6	4.1	4.2	4.0	3.7	2.6
29.....	2.8	7.1	11.8	17.5	14.9	14.2	12.6	4.3	4.3	4.1	3.8	2.4
30.....	2.8	-----	12.2	17.5	14.5	14.1	12.6	4.2	4.4	4.1	3.8	2.2
31.....	3.4	-----	12.3	-----	14.1	-----	12.5	4.2	-----	4.4	-----	2.3
<b>Means.</b>	<b>3.3</b>	<b>7.0</b>	<b>8.5</b>	<b>15.4</b>	<b>16.3</b>	<b>12.9</b>	<b>12.8</b>	<b>6.7</b>	<b>4.5</b>	<b>4.4</b>	<b>3.6</b>	<b>3.0</b>

## MISSISSIPPI RIVER SYSTEM—ATCHAFALAYA RIVER, SIMMESPORT, LA.

[illegible]

## DESCRIPTION OF RIVER GAGES, ETC.

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## MISSISSIPPI RIVER SYSTEM—ATCHAFALAYA RIVER, MELVILLE, LA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	15.0	19.6	26.1	30.3	30.5	22.2	26.5	18.5	7.8	6.8	9.3	17.3
2.....	15.5	20.0	26.5	30.2	30.0	22.4	26.3	18.4	7.8	7.2	9.4	19.0
3.....	15.9	20.3	26.8	30.1	30.1	22.4	26.3	18.8	7.9	7.8	9.5	20.3
4.....	16.1	21.0	26.9	30.0	30.2	22.1	26.5	19.1	8.1	8.0	9.5	21.3
5.....	16.2	21.5	26.9	29.9	30.3	21.9	26.8	19.2	8.2	8.2	9.5	22.1
6.....	16.2	21.7	26.9	29.9	30.3	21.7	27.1	19.5	8.6	8.5	9.6	22.8
7.....	16.0	21.8	26.9	29.8	30.3	21.8	27.3	19.8	9.0	8.8	10.0	23.4
8.....	15.8	21.6	26.7	29.7	30.2	22.1	27.5	19.8	9.4	9.1	11.2	24.0
9.....	15.3	21.2	26.6	29.6	30.1	22.3	27.7	19.8	9.7	9.9	13.0	24.5
10.....	14.8	20.6	26.6	29.4	29.9	22.5	27.8	19.8	9.8	10.7	14.0	24.9
11.....	15.3	20.0	26.6	29.2	29.7	22.8	27.9	19.7	9.6	11.2	14.8	25.2
12.....	15.1	19.4	26.6	28.9	29.6	23.0	27.8	19.5	9.4	11.6	15.1	25.4
13.....	14.6	19.1	26.5	28.6	29.2	23.2	27.7	19.0	9.3	11.9	15.3	25.8
14.....	13.8	18.6	26.5	28.3	28.9	23.5	27.6	18.6	9.1	12.0	15.3	26.0
15.....	13.0	18.0	26.5	28.0	28.6	23.5	27.5	18.0	8.9	12.1	15.0	26.1
16.....	12.4	18.0	26.5	28.0	28.2	24.0	27.1	17.5	8.7	12.1	14.7	25.7
17.....	11.7	18.4	27.4	29.0	27.9	24.2	26.6	16.7	8.5	11.9	14.5	25.5
18.....	11.5	19.6	27.7	29.4	27.6	24.3	26.1	16.0	8.1	11.7	14.4	25.0
19.....	11.5	20.5	28.1	29.8	27.4	24.4	25.5	15.2	7.8	11.5	14.0	24.0
20.....	11.5	21.5	28.5	30.0	27.0	24.6	24.8	14.2	7.7	11.3	13.8	23.6
21.....	11.8	22.5	29.0	30.0	26.7	24.9	23.9	13.4	7.4	10.9	14.0	23.3
22.....	12.0	23.5	29.3	29.9	26.1	25.1	23.0	12.3	7.0	11.1	13.8	22.5
23.....	12.3	23.9	29.6	30.0	25.7	25.3	22.2	11.3	7.1	11.1	13.0	22.0
24.....	12.9	24.4	29.8	30.1	25.2	25.6	21.4	10.5	6.6	10.8	12.6	21.5
25.....	13.8	24.7	29.9	30.1	24.7	26.0	20.4	9.8	6.3	10.6	12.4	21.0
26.....	14.7	25.0	30.1	30.1	24.3	26.2	19.7	9.0	6.2	10.2	12.4	20.5
27.....	15.6	25.3	30.3	30.1	23.9	26.3	19.3	8.6	6.0	9.8	12.3	19.8
28.....	16.5	25.6	30.5	30.1	23.2	26.4	19.4	8.2	5.9	9.7	13.0	19.6
29.....	17.4	-----	30.5	30.0	22.7	26.6	19.2	7.9	5.7	9.4	14.0	19.5
30.....	18.2	-----	30.5	30.0	22.2	26.6	18.9	7.7	6.0	9.2	15.6	19.4
31.....	19.0	-----	30.5	-----	22.0	-----	18.6	7.6	-----	9.0	-----	18.8
<b>Means.</b>	<b>14.6</b>	<b>21.3</b>	<b>28.0</b>	<b>29.6</b>	<b>27.5</b>	<b>23.9</b>	<b>24.7</b>	<b>15.3</b>	<b>7.9</b>	<b>10.1</b>	<b>12.8</b>	<b>22.6</b>
<b>1901</b>												
1.....	18.4	23.6	20.6	28.8	31.2	25.1	19.6	10.2	14.8	10.8	4.6	3.0
2.....	18.0	23.2	20.4	28.8	31.2	24.8	19.1	9.9	15.7	11.0	4.6	3.5
3.....	17.2	22.6	19.8	28.8	31.2	24.4	18.7	9.6	16.2	11.2	4.6	3.8
4.....	16.5	22.6	19.3	28.7	31.3	24.4	18.5	9.2	16.9	11.3	4.6	3.9
5.....	16.0	22.5	18.8	28.6	31.3	24.6	18.9	8.9	17.0	11.2	4.3	3.9
6.....	15.5	21.4	18.4	28.5	31.3	24.8	19.2	8.6	17.1	11.0	3.9	3.9
7.....	15.0	21.0	17.7	28.4	31.3	25.2	19.7	8.5	17.1	10.9	3.8	3.9
8.....	15.0	20.7	16.7	28.4	31.3	25.6	20.1	8.2	17.0	10.5	3.6	3.9
9.....	15.0	20.8	16.2	28.6	31.3	25.9	20.5	8.0	16.8	10.0	3.5	4.0
10.....	15.0	21.4	15.7	28.8	31.3	26.1	20.8	7.9	16.0	9.5	3.5	4.4
11.....	15.0	21.4	15.3	28.9	31.3	26.2	21.2	8.0	15.2	9.0	3.5	4.6
12.....	17.6	21.5	15.2	29.0	31.3	26.2	21.4	8.1	14.4	8.6	3.5	5.0
13.....	18.7	22.0	14.8	29.2	31.3	26.2	21.4	8.2	13.6	8.2	3.5	5.1
14.....	19.0	22.4	14.7	29.3	31.3	26.2	21.0	8.2	12.8	7.8	3.5	5.2
15.....	19.0	22.8	14.6	29.3	31.3	26.2	20.5	8.2	12.2	7.4	3.4	6.0
16.....	19.0	23.4	15.0	29.4	31.4	26.2	19.9	8.3	11.9	6.7	3.4	6.5
17.....	19.0	23.5	16.1	29.5	31.4	26.0	19.1	8.4	11.6	6.1	3.4	6.8
18.....	18.9	23.6	16.8	29.8	31.4	25.8	18.6	8.0	11.3	5.7	3.2	7.0
19.....	18.8	23.9	19.2	29.9	31.4	25.4	17.6	7.8	10.9	5.7	3.1	7.5
20.....	18.8	24.0	21.4	30.1	31.3	25.1	16.3	7.6	10.6	5.7	3.0	8.0
21.....	19.0	23.6	23.3	30.2	31.1	24.8	15.4	7.5	10.2	6.1	2.9	8.7
22.....	19.3	23.3	24.7	30.3	30.9	24.3	14.8	7.5	10.0	6.3	2.8	9.2
23.....	20.0	23.2	26.0	30.5	30.7	23.9	14.1	7.9	9.9	6.4	3.0	10.0
24.....	21.0	23.0	26.8	30.7	30.2	23.4	13.5	8.2	9.9	6.4	3.0	11.0
25.....	21.8	22.6	27.5	30.8	29.5	22.9	13.0	8.4	9.9	6.4	3.0	12.5
26.....	22.6	22.2	27.8	30.9	29.0	22.2	13.0	8.7	10.0	6.0	3.0	14.5
27.....	23.0	21.8	28.1	31.0	28.2	21.8	12.9	9.3	10.3	5.5	3.0	15.8
28.....	23.3	21.2	28.3	31.1	27.6	21.1	12.4	10.0	10.6	5.3	3.0	17.0
29.....	23.6	-----	28.4	31.1	26.8	20.8	11.9	11.7	10.6	5.0	3.0	18.2
30.....	23.9	-----	28.5	31.2	26.1	20.2	11.0	12.9	10.7	4.8	3.0	20.0
31.....	23.9	-----	28.7	-----	25.5	-----	10.6	14.0	-----	4.6	-----	20.8
<b>Means.</b>	<b>18.9</b>	<b>22.5</b>	<b>20.8</b>	<b>29.6</b>	<b>30.4</b>	<b>24.5</b>	<b>17.2</b>	<b>8.9</b>	<b>13.0</b>	<b>7.6</b>	<b>3.5</b>	<b>8.3</b>

## MISSISSIPPI RIVER SYSTEM—ATCHAFALAYA RIVER, MELVILLE, LA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	21.4	11.0	20.0	32.2	31.6	19.1	20.0	24.0	15.8	9.2	13.7	16.3
2.....	21.4	11.8	19.5	32.2	31.2	19.0	19.9	24.0	15.7	10.2	13.5	17.3
3.....	21.3	12.8	19.3	32.2	30.8	19.5	19.9	24.1	15.6	11.2	13.4	18.3
4.....	20.8	13.8	19.1	32.3	30.4	20.3	19.6	24.4	15.6	11.5	13.6	19.0
5.....	20.0	14.9	19.0	32.4	29.9	21.0	19.5	24.8	15.5	11.7	13.6	19.5
6.....	19.4	16.3	19.0	32.5	29.2	21.9	20.4	25.1	15.4	12.0	13.7	20.0
7.....	18.5	17.8	19.2	32.6	28.6	22.7	21.0	25.4	15.4	12.5	13.4	20.4
8.....	18.0	19.5	19.6	32.6	28.1	23.0	21.2	25.7	15.5	13.2	13.4	20.9
9.....	17.7	20.8	20.6	32.5	27.5	23.4	21.6	25.9	15.6	14.0	13.0	21.4
10.....	17.6	22.2	21.6	32.5	27.0	24.0	21.8	25.6	15.7	15.0	11.9	22.0
11.....	17.8	23.4	22.6	32.5	26.4	24.3	22.4	25.3	15.8	15.7	11.4	22.5
12.....	18.5	24.3	23.6	32.5	25.9	24.5	23.2	25.0	15.8	16.2	11.0	23.1
13.....	19.1	25.1	24.7	32.6	25.4	24.6	23.7	24.6	15.9	17.2	10.7	23.6
14.....	19.9	26.0	25.8	32.6	25.3	24.2	24.2	24.4	16.0	18.0	10.7	24.1
15.....	20.6	26.3	26.8	32.8	25.3	24.0	24.5	23.8	15.8	18.2	10.8	24.6
16.....	21.2	26.6	27.3	32.8	25.1	23.8	24.8	23.2	15.8	18.3	10.8	25.4
17.....	21.6	26.8	27.8	32.8	24.8	23.6	24.9	22.6	15.7	18.4	10.5	25.8
18.....	21.7	26.6	28.2	32.8	24.5	23.5	24.9	22.2	15.5	18.5	10.5	26.1
19.....	21.8	26.5	28.6	32.9	24.2	23.3	24.9	21.8	15.2	18.5	10.5	26.2
20.....	21.5	26.5	28.9	32.9	24.0	23.1	24.8	21.3	14.8	18.5	10.3	26.5
21.....	21.1	26.4	29.3	32.9	23.6	22.9	24.7	21.0	14.4	18.2	10.6	26.8
22.....	20.6	25.8	29.6	32.9	23.0	22.6	24.6	20.6	13.6	17.9	10.9	27.8
23.....	20.0	24.9	30.0	32.8	22.4	22.4	24.5	20.1	12.7	17.5	11.3	28.5
24.....	18.8	24.0	30.2	32.7	21.8	22.1	24.4	19.6	12.2	17.0	11.7	29.1
25.....	18.0	23.4	30.4	32.6	21.2	21.8	24.3	19.0	11.6	16.6	12.7	29.6
26.....	17.0	22.4	30.7	32.5	20.6	21.5	24.2	18.6	11.0	16.0	13.3	30.0
27.....	15.5	21.4	31.0	32.4	20.4	21.2	24.1	18.2	10.5	15.5	13.8	30.3
28.....	13.8	20.4	31.2	32.3	20.0	20.9	24.0	17.8	10.0	15.0	14.5	30.7
29.....	13.0	.....	31.3	32.1	19.8	20.6	24.0	18.4	9.6	14.5	14.8	31.1
30.....	11.8	.....	31.8	32.0	19.4	20.3	24.0	17.6	9.4	14.0	15.5	31.2
31.....	11.0	.....	31.9	.....	19.2	.....	24.0	16.6	.....	13.7	.....	31.4
<b>Means.</b>	18.7	21.7	25.8	32.5	25.1	22.3	23.0	22.3	14.2	15.3	12.3	24.8
<b>1903</b>												
1.....	31.6	27.0	34.4	38.5	36.8	30.9	31.9	22.0	17.6	15.8	14.0	8.3
2.....	31.9	26.7	34.6	38.6	36.7	30.7	31.9	21.7	17.2	15.7	13.9	8.2
3.....	32.1	26.5	34.8	38.6	36.6	30.8	31.9	21.4	16.8	15.4	13.6	8.1
4.....	32.2	26.2	35.1	38.7	36.5	30.8	31.9	21.3	16.4	14.9	13.3	7.9
5.....	32.3	25.8	35.3	38.7	36.4	30.8	31.9	21.1	16.0	14.5	13.0	7.9
6.....	32.5	25.5	35.5	38.6	36.3	30.8	31.8	20.8	15.0	13.9	12.8	7.8
7.....	32.6	25.3	35.7	38.6	36.2	30.8	31.7	20.6	14.5	13.5	12.4	7.6
8.....	32.7	26.2	35.9	38.5	36.1	30.8	31.5	20.4	14.1	13.2	12.1	7.5
9.....	32.7	26.6	36.0	38.5	36.0	30.9	31.3	20.3	13.9	12.9	11.9	7.5
10.....	32.8	27.3	36.1	38.5	35.9	31.0	31.0	20.0	13.7	12.7	11.7	7.5
11.....	32.8	28.3	36.3	38.5	35.8	31.3	30.7	19.8	13.8	13.0	11.5	7.5
12.....	32.7	28.9	36.5	38.5	35.7	31.4	30.4	19.2	14.0	13.3	11.3	7.4
13.....	32.5	29.4	36.7	38.4	35.6	31.5	30.0	19.0	14.3	13.7	11.2	7.6
14.....	32.3	29.9	36.9	38.3	35.5	31.6	29.6	18.7	14.5	14.0	11.1	7.7
15.....	32.2	30.6	37.0	38.2	35.4	31.7	29.3	18.2	14.7	14.7	11.1	7.2
16.....	32.1	31.3	37.1	38.1	35.2	31.8	29.0	17.8	14.6	15.2	11.3	6.7
17.....	32.1	31.8	37.2	38.1	35.0	31.8	28.6	17.6	14.6	15.7	11.5	6.3
18.....	32.0	32.2	37.4	38.0	34.8	31.9	28.0	17.4	14.5	15.9	11.7	6.0
19.....	31.9	32.5	37.5	37.9	34.6	31.9	27.3	17.2	14.3	16.0	11.5	5.8
20.....	31.7	32.7	37.6	37.8	34.4	31.9	26.8	17.8	14.0	16.1	11.4	5.6
21.....	31.4	32.9	37.7	37.7	34.1	31.9	26.2	18.2	14.0	16.2	11.2	5.5
22.....	31.3	33.1	37.8	37.6	33.8	31.9	25.6	18.5	14.2	16.3	11.1	5.2
23.....	31.2	33.3	37.9	37.5	33.4	31.9	25.2	18.9	14.4	16.3	11.0	5.0
24.....	31.0	33.4	38.0	37.5	33.0	31.9	24.7	19.0	14.6	16.3	10.7	4.8
25.....	30.4	33.5	38.1	37.5	32.6	31.9	23.9	19.3	14.9	16.2	10.3	4.7
26.....	30.1	33.8	38.2	37.4	32.2	32.0	23.4	19.3	15.3	16.1	9.9	4.5
27.....	29.7	34.1	38.3	37.3	31.9	32.0	23.2	19.0	15.5	15.9	9.5	4.3
28.....	29.3	34.2	38.4	37.1	31.6	32.0	23.1	18.8	15.8	15.5	9.1	4.0
29.....	29.0	.....	38.5	36.9	31.3	32.0	22.8	18.7	15.9	15.1	8.8	3.9
30.....	28.5	.....	38.5	36.9	31.1	32.0	22.6	18.3	15.9	14.8	8.5	4.1
31.....	27.7	.....	38.5	.....	31.0	.....	22.3	18.0	.....	14.5	.....	4.3
<b>Means.</b>	31.5	30.0	36.9	38.0	34.6	31.5	28.0	19.3	15.0	14.9	11.4	6.3



## MISSISSIPPI RIVER SYSTEM—ATCHAFALAYA RIVER, MELVILLE, LA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1904</b>												
1.....	4.8	13.5	21.9	29.5	34.2	30.9	31.7	28.8	11.6	7.8	4.8	5.0
2.....	5.3	16.6	22.0	29.7	34.3	30.5	31.6	28.5	12.5	8.5	4.8	5.0
3.....	5.9	19.0	21.9	30.0	34.3	29.9	31.5	28.0	13.2	8.8	5.0	5.0
4.....	6.5	20.5	21.8	30.2	34.3	29.4	31.4	27.4	13.3	9.1	5.2	5.0
5.....	7.1	21.5	21.7	30.4	34.2	28.6	31.3	26.7	13.5	9.4	5.3	4.9
6.....	7.6	22.9	21.7	30.6	34.1	28.2	31.2	25.9	13.7	9.1	5.3	4.8
7.....	7.7	23.0	21.8	30.8	34.0	27.6	31.0	24.9	13.4	8.8	5.1	4.6
8.....	8.4	23.5	21.9	31.0	34.0	27.1	30.8	24.1	12.0	8.8	5.1	4.3
9.....	8.7	23.8	21.9	31.3	33.9	26.8	30.5	23.3	11.6	9.1	5.2	4.2
10.....	8.8	24.0	21.7	31.5	33.9	27.0	30.4	22.3	11.4	9.3	5.5	4.2
11.....	9.0	24.1	21.7	31.6	33.8	27.2	30.3	21.3	11.1	9.5	5.6	4.1
12.....	9.1	23.9	21.8	31.8	33.7	27.8	30.1	20.5	10.8	9.7	5.6	3.9
13.....	9.0	23.8	21.9	32.0	33.7	28.3	30.0	20.0	10.5	9.8	5.5	3.7
14.....	8.9	23.3	21.9	32.1	33.7	28.8	29.9	19.5	9.8	10.0	5.5	3.7
15.....	8.8	22.8	22.0	32.2	33.6	29.2	29.7	19.0	9.4	10.1	5.5	3.6
16.....	8.6	22.0	22.2	32.4	33.6	29.5	29.5	18.5	9.0	10.2	5.5	3.5
17.....	8.4	21.5	22.6	32.6	33.6	29.9	29.3	18.0	8.5	10.1	5.5	3.5
18.....	8.1	21.0	23.4	32.8	33.5	30.2	29.1	17.0	8.3	9.7	5.5	3.4
19.....	7.9	20.4	24.1	32.9	33.5	30.3	29.2	16.0	8.2	9.1	5.4	3.3
20.....	7.5	19.4	24.7	33.0	33.5	30.4	29.2	15.2	8.0	8.6	5.1	3.2
21.....	7.4	19.7	25.6	33.2	33.5	30.6	29.3	14.6	7.7	8.0	5.2	3.2
22.....	7.3	19.7	26.2	33.3	33.4	30.9	29.3	14.1	7.2	7.5	5.4	3.4
23.....	7.3	19.8	26.7	33.4	33.3	31.1	29.5	13.7	7.1	6.8	5.5	3.6
24.....	7.0	19.9	27.3	33.5	33.2	31.2	29.6	13.3	7.0	6.3	5.5	3.8
25.....	6.7	20.1	27.6	33.7	33.0	31.3	29.6	12.8	6.8	6.0	5.4	3.9
26.....	6.3	20.4	28.0	33.9	32.9	31.4	29.6	12.5	7.2	5.7	5.4	4.0
27.....	6.1	20.9	28.3	34.0	32.7	31.5	29.6	12.2	7.2	5.4	5.3	4.8
28.....	6.5	21.3	28.6	34.1	32.5	31.6	29.5	11.8	7.1	5.2	5.2	4.5
29.....	7.0	21.7	28.9	34.2	32.2	31.6	29.4	11.4	7.1	5.0	5.1	7.0
30.....	8.0		29.1	34.2	31.8	31.7	29.2	11.2	7.6	4.9	5.0	9.0
31.....	10.5		29.3		31.4		29.0	11.1		4.8		10.7
<b>Means.</b>	7.6	21.2	24.2	32.2	33.5	29.7	30.0	18.8	9.7	8.1	5.3	4.6

## MISSOURI RIVER SYSTEM—MILK RIVER, HAVRE, MONT.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1904</b>												
1.....								2.8	2.5	2.5	2.8	Frozen.
2.....								2.8	2.6	2.6	2.8	
3.....								2.7	2.7	2.5	2.8	
4.....								2.6	2.7	2.5	2.8	
5.....								2.6	2.7	2.4	2.9	
6.....								2.5	2.6	2.4	2.9	
7.....								2.5	2.6	2.5	2.9	
8.....								2.6	2.6	3.0	2.9	
9.....								2.5	2.5	2.9	2.9	
10.....								2.5	2.5	2.8	2.9	
11.....								2.5	2.5	2.7	2.9	
12.....								2.4	2.4	2.7	2.9	
13.....								2.4	2.4	2.7	2.9	
14.....								2.4	2.4	2.6	2.9	
15.....								2.3	2.4	2.8	2.9	
16.....								2.2	2.4	2.8	2.9	
17.....								2.2	2.4	2.8	2.9	
18.....								2.2	2.3	2.8	3.1	
19.....								2.2	2.3	2.9	3.1	
20.....								2.2	2.3	2.9	3.0	
21.....								2.3	2.3	2.9	3.0	
22.....								2.6	2.2	2.9	3.0	
23.....								2.5	2.2	2.8	3.0	
24.....								2.6	2.2	2.8	3.0	
25.....								2.6	2.2	2.8	3.0	
26.....								2.7	2.2	2.8	3.0	
27.....								2.7	2.2	2.8	3.0	
28.....								2.6	2.2	2.8	3.0	
29.....								2.5	2.2	2.8	3.0	
30.....								2.5	2.4	2.8	3.0	
31.....								2.5		2.8		
<b>Means.</b>								2.5	2.4	2.7	2.8	

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSOURI RIVER SYSTEM—YELLOWSTONE RIVER, GLENDIVE, MONT.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....							4.0	1.7	0.8	0.8		
2.....							3.8	1.6	0.7	0.9		
3.....							3.5	1.6	0.6	0.9		
4.....							3.4	1.5	0.5	0.8		
5.....							3.4	1.5	0.5	0.8		
6.....							3.3	1.4	0.4	0.7		
7.....							3.3	1.4	0.4	0.7		
8.....							3.1	1.3	0.4	0.6		
9.....							3.0	1.2	0.3	0.5		
10.....							2.8	1.2	0.3	0.5		
11.....							2.6	1.1	0.3	0.6		
12.....							2.4	1.2	0.2	0.6		
13.....							2.1	1.2	0.2	0.5		
14.....							2.0	1.1	0.1	0.5		
15.....							2.0	1.1	0.1	0.4		
16.....							2.3	1.0	0.0	0.4		
17.....							2.5	0.9	0.0	0.3		
18.....							2.8	0.9	0.1	0.4		
19.....							3.0	1.0	0.1	0.5		
20.....							3.1	1.2	0.2	0.5		
21.....							2.9	2.4	0.2	0.6		
22.....							2.7	2.0	0.3	0.5		
23.....							2.4	1.5	0.4	0.4		
24.....							2.3	1.1	0.5	0.3		
25.....							2.1	1.1	0.5	0.2		
26.....							2.0	1.0	0.6	0.1		
27.....							2.0	1.0	0.6	0.1		
28.....							1.9	0.9	0.7	0.0		
29.....							1.8	0.8	0.7	0.0		
30.....							1.8	0.8	0.8	-0.1		
31.....							1.7	0.7		-0.1		
<b>Means.</b>							2.6	1.2	0.4	0.4		
<b>1903.</b>												
1.....				6.0	0.4	3.0	7.9	5.5	2.7	1.9		
2.....				7.0	0.5	3.1	8.3	6.1	2.5	1.9		
3.....				7.2	0.7	3.2	8.9	6.3	2.3	2.0		
4.....				7.0	0.9	4.3	8.1	5.6	2.0	2.0		
5.....				6.5	1.2	5.0	7.9	4.9	1.9	2.0		
6.....				4.0	1.5	5.5	6.9	4.9	1.7	2.1		
7.....				3.5	1.8	6.3	6.8	4.4	1.6	2.0		
8.....				3.0	2.0	7.0	6.0	4.2	1.6	2.0		
9.....				2.7	2.1	7.1	5.8	4.0	1.5	2.0		
10.....				2.0	2.0	7.2	6.0	3.8	1.5	2.0		
11.....				1.5	1.8	7.7	5.9	3.6	1.6	1.9		
12.....				1.0	1.6	8.0	5.8	3.7	1.7	1.9		
13.....				1.2	1.8	7.7	5.6	3.5	2.1	2.0		
14.....				1.0	1.9	7.5	5.4	3.4	2.5	2.0		
15.....				0.9	2.0	7.5	5.2	3.3	2.7	2.0		
16.....			4.2	0.8	2.2	7.6	5.6	3.4	2.8	1.9		
17.....			4.1	0.8	2.3	8.3	5.4	3.5	2.9	1.8		
18.....			4.2	0.7	2.3	8.4	5.5	3.0	2.8	1.9		
19.....			4.4	0.7	2.4	8.5	5.4	2.9	2.6	1.9		
20.....			4.4	0.6	2.5	9.0	5.3	2.7	2.4	1.9		
21.....			4.5	0.6	4.5	8.8	5.3	2.6	2.3	1.8		
22.....			4.3	0.5	5.0	8.6	5.0	2.4	2.3	1.8		
23.....			4.4	0.5	5.1	8.6	5.0	2.2	2.2	1.8		
24.....			4.4	0.4	5.3	8.4	4.8	2.2	2.2	1.7		
25.....			4.5	0.4	5.3	8.2	4.7	2.5	2.1	1.6		
26.....			4.5	0.5	5.0	7.8	4.7	2.4	2.0	1.6		
27.....			4.4	0.5	4.7	7.5	5.4	2.7	2.0	1.6		
28.....			4.5	0.4	4.3	7.3	5.2	4.0	1.9	1.6		
29.....			4.8	0.3	3.9	7.0	4.5	3.9	1.9	1.5		
30.....			5.0	0.3	3.5	7.0	4.5	2.7	1.9	1.5		
31.....			5.0		3.0		4.3	2.6		1.4		
<b>Means.</b>			4.5	2.1	2.7	7.0	5.8	3.6	2.1	1.8		

## MISSOURI RIVER SYSTEM—YELLOWSTONE RIVER, GLENDIVE, MONT.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1				11.9	3.4	7.4	7.0	5.1	2.8	1.4		
2				7.9	3.6	8.8	7.2	4.9	3.3	1.4		
3				6.7	3.6	8.5	7.7	4.7	3.9	1.4		
4				6.0	3.6	9.6	8.2	4.5	3.5	1.3		
5				5.5	3.7	8.4	8.2	4.4	3.1	1.2		
6				4.8	3.8	8.4	8.2	4.2	2.9	1.2		
7				4.0	4.4	7.9	7.5	4.0	2.8	1.2		
8				3.4	4.9	7.3	7.5	4.0	2.7	1.2		
9				3.0	4.9	7.3	7.2	3.9	2.6	1.2		
10				2.9	4.9	7.8	7.1	3.8	2.5	1.2		
11				2.7	4.9	7.8	7.3	3.7	2.4	1.2		
12				2.2	4.5	8.1	7.0	3.6	2.4	1.2		
13				2.2	4.3	8.5	7.0	3.5	2.3	1.2		
14				2.2	4.3	8.6	6.9	3.5	2.1	1.2		
15				2.5	4.2	8.2	6.9	3.7	2.0	1.2		
16			8.0	2.5	4.2	8.1	7.0	3.7	2.0	1.2		
17			7.7	2.6	4.1	8.2	6.8	3.5	1.9	1.3		
18			7.7	2.8	4.3	8.4	6.5	3.5	1.9	1.4		
19			7.5	2.9	4.4	8.8	6.3	3.4	1.8	2.0		
20			7.5	2.6	4.5	9.2	6.0	3.3	1.8	1.7		
21			7.2	2.6	4.7	9.3	5.7	3.3	1.8	1.7		
22			7.2	2.6	6.0	9.5	5.5	3.3	1.7	1.6		
23			7.0	2.7	7.1	10.2	5.4	3.3	1.7	1.5		
24			7.0	3.0	7.9	9.2	5.3	3.2	1.6			
25			7.0	3.5	8.8	9.2	5.3	3.2	1.6			
26			7.0	4.5	9.0	9.1	5.3	3.1	1.6			
27			7.0	3.7	9.3	9.1	5.4	2.9	1.6			
28			7.0	3.5	8.9	8.0	5.4	2.8	1.5			
29			5.5	3.1	7.9	7.5	5.2	2.6	1.5			
30			5.9	2.9	7.5	7.2	5.2	2.6	1.4			
31			8.4		7.2		5.2	2.6				
Means			7.2	3.8	5.4	8.5	6.5	3.6	2.2	1.4		

## MISSOURI RIVER SYSTEM—JAMES RIVER, LAMOURE, N. DAK.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1903												
1							4.2	1.0	0.6	-1.1		
2							3.8	1.2	0.4	-1.1		
3							3.0	0.9	0.4	-1.1		
4							3.0	0.9	0.4	-1.2		
5							3.9	0.9	0.3	-1.3		
6							3.2	0.8	0.3	-1.3		
7							2.0	0.8	0.2	-1.3		
8							3.9	0.8	0.1	-1.3		
9							3.2	0.8	-0.2	-1.2		
10							3.0	0.6	-0.4	-1.2		
11							3.2	0.5	-0.7	-1.2		
12							2.0	0.5	-0.7	-1.2		
13							2.0	0.5	-0.6	-1.2		
14							2.0	0.4	-0.7	-1.2		
15							5.9	0.4	-0.7	-1.3		
16							2.0	0.1	-0.7	-1.4		
17							1.8	0.2	-1.0	-1.3		
18							1.8	0.3	-1.0	-1.3		
19							1.7	0.4	-1.0	-1.3		
20							1.7	0.6	-1.0	-1.3		
21							1.8	0.4	-1.0	-1.4		
22							1.4	0.4	-1.0	-1.5		
23							1.4	0.4	-1.0	-1.8		
24							1.4	0.5	-1.1	-1.8		
25							1.6	0.5	-1.1	-1.8		
26							1.4	0.5	-1.1	-1.8		
27							1.4	0.6	-1.0	-1.9		
28							1.1	0.6	-1.1	-1.9		
29							1.3	0.7	-1.1	-1.9		
30							1.1	0.8	-1.1	-1.9		
31							1.1	0.6		-1.9		
Means							2.3	0.6	-0.6	-1.4		

## DESCRIPTION OF RIVER GAGES, ETC.

MISSOURI RIVER SYSTEM—JAMES RIVER, LA MOURE, N. DAK.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1				2.3	-1.6	-0.5	-0.1	-0.3	-0.2	-0.2		
2				3.9	-1.6	-0.5	-0.1	-0.3	-0.2	-0.2		
3				5.4	-1.6	-0.5	0.0	-0.3	-0.2	-0.2		
4				6.2	-1.6	-0.5	0.0	-0.3	-0.2	-0.3		
5				6.5	-1.6	-0.5	0.0	-0.3	-0.2	-0.3		
6				6.5	-1.6	-0.5	0.0	-0.3	-0.2	-0.3		
7				6.5	-1.6	-0.4	0.0	-0.4	-0.2	-0.3		
8				6.4	-1.4	-0.4	0.0	-0.4	-0.2	-0.5		
9				4.7	-1.5	-0.4	0.0	-0.4	-0.2	-0.6		
10				4.2	-1.6	-0.4	0.0	-0.4	-0.2	-0.6		
11				3.7	-1.6	-0.4	0.0	-0.4	-0.2	-0.5		
12				3.1	-1.6	-0.3	0.0	-0.5	-0.2	-0.5		
13				2.4	-1.6	-0.3	0.0	-0.5	-0.2	-0.5		
14				1.5	-1.6	-0.3	0.0	-0.5	-0.2	-0.5		
15				0.8	-1.5	-0.3	0.0	-0.5	-0.2	-0.5		
16				0.2	-1.5	-0.2	0.0	-0.5	-0.2	-0.5		
17				-0.1	-1.4	-0.2	0.0	-0.4	-0.2	-0.6		
18				-0.4	-1.3	-0.2	0.0	-0.4	-0.2	-0.6		
19				-0.6	-1.4	-0.2	-0.1	-0.4	-0.2	-0.6		
20				-0.8	-1.5	-0.1	-0.1	-0.4	-0.1	-0.6		
21				-0.9	-1.6	-0.1	-0.1	-0.4	-0.1	-0.6		
22				-1.0	-1.1	-0.1	-0.2	-0.4	-0.1	-0.7		
23				-1.1	-0.3	-0.1	-0.2	-0.4	-0.1	-0.7		
24				-1.2	-1.4	-0.1	-0.2	-0.4	-0.1	-0.7		
25				-1.3	-1.0	-1.1	-0.2	-0.4	-0.1	-0.8		
26				-1.3	0.0	-0.1	-0.2	-0.3	-0.1	-0.8		
27				-1.1	0.0	-0.1	-0.2	-0.3	-0.1	-0.8		
28				-1.4	-0.2	-0.1	-0.2	-0.2	-0.1	-0.8		
29				-1.5	-0.3	-0.1	-0.2	-0.2	-0.2	-0.8		
30				-1.6	-0.4	-0.1	-0.3	-0.2	-0.2	-0.8		
31					-0.4		-0.3	-0.2		-0.8		
<b>Means.</b>				1.7	-1.2	-0.3	-0.1	-0.4	-0.2	-0.6		
<b>1904</b>												
1				1.1	4.0	-0.4	1.8	1.1	0.3	-0.3		
2				1.1	3.4	-0.5	1.8	1.1	0.3	-0.4		
3				2.0	2.9	-0.5	1.7	1.0	0.3	-0.4		
4				2.8	2.5	-0.5	1.7	0.9	0.3	-0.4		
5				3.9	2.3	-0.3	1.8	0.9	0.3	-0.4		
6				4.5	1.9	-0.4	1.9	0.9	0.3	-0.4		
7				5.1	1.6	-0.4	1.8	0.8	0.3	-0.5		
8				5.2	1.3	-0.1	1.8	0.8	0.2	-0.5		
9				5.7	1.1	0.0	1.7	0.8	0.2	-0.6		
10				5.7	1.0	0.0	1.8	0.8	0.2	-0.6		
11				5.7	0.8	1.1	1.8	0.8	0.2	-0.6		
12				5.7	0.6	2.4	1.8	0.8	0.2	-0.7		
13				5.7	0.4	2.6	1.8	0.9	0.2	-0.7		
14				4.4	0.4	2.2	1.9	0.8	0.2	-0.7		
15				4.4	0.6	1.9	2.2	0.8	0.2	-0.8		
16				4.4	0.6	1.8	2.0	0.7	0.1	-0.7		
17				4.1	0.5	1.7	2.0	0.7	0.1	-0.7		
18				4.7	0.5	1.9	2.0	0.7	0.0	-0.7		
19				5.6	0.3	1.9	2.1	0.7	0.0	-0.7		
20				6.1	0.2	2.0	2.1	0.7	0.0	-0.7		
21				6.3	0.2	1.7	2.0	0.6	-0.1	-0.8		
22				6.6	0.0	1.5	2.0	0.6	-0.1	-0.8		
23				6.8	-0.1	1.6	2.0	0.6	-0.1	-0.9		
24				5.1	-0.1	1.7	1.9	0.6	-0.2	-0.9		
25				5.1	-0.1	1.7	1.9	0.5	-0.2	-0.9		
26				5.3	-0.1	1.8	1.8	0.5	-0.2	-1.0		
27				5.4	-0.2	1.8	1.5	0.4	-0.3	-1.0		
28				5.4	-0.3	1.9	1.4	0.5	-0.3	-1.1		
29				5.1	-0.3	1.8	1.3	0.4	-0.3	-1.1		
30				4.6	-0.4	1.7	1.2	0.4	-0.3	-1.2		
31					-0.4		1.2	0.4		-1.2		
<b>Means.</b>				4.8	0.8	1.1	1.8	0.7	0.1	-0.7		

## DESCRIPTION OF RIVER GAGES, ETC.

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## MISSOURI RIVER SYSTEM—JAMES RIVER, HURON, S. DAK.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1							2.8	2.5	1.3	0.5	0.3	Frozen.
2							2.7	2.3	1.3	0.5	0.4	
3							2.7	2.3	1.2	0.4	0.4	
4							2.5	2.2	1.2	0.4	0.3	
5							2.5	2.1	1.2	0.4	0.4	
6							2.5	2.0	1.1	0.4	0.4	
7							2.5	1.9	1.1	0.4	0.4	
8							2.4	1.9	1.1	0.3	0.3	
9							2.4	1.8	1.1	0.3	0.4	
10							2.4	1.7	1.0	0.3	0.3	
11							2.3	1.7	1.0	0.2	0.3	
12							2.2	1.6	1.0	0.2	0.3	
13							2.2	1.4	1.0	0.2	0.4	
14							2.2	1.4	1.0	0.2	0.4	
15							2.1	1.4	1.0	0.2	0.4	
16							2.0	1.4	1.0	0.2	Frozen.	
17							2.1	1.4	1.0	0.2	0.5	
18							2.1	1.4	0.9	0.2	0.3	
19							2.1	1.6	0.8	0.2	0.4	
20							2.1	1.6	0.6	0.2	0.4	
21							2.1	1.6	0.6	0.1	0.5	
22							2.0	1.6	0.7	0.1	0.5	
23							2.0	1.5	0.6	0.1	0.5	
24							2.0	1.4	0.6	0.2	0.4	
25							2.0	1.3	0.6	0.2	0.4	
26							2.0	1.3	0.5	0.2	Frozen.	
27							2.2	1.3	0.5	0.3		
28							2.5	1.3	0.6	0.3	0.4	
29							2.6	1.3	0.5	0.3	0.3	
30							2.7	1.3	0.5	0.3	Frozen.	
31							2.7	1.3		0.3		
<b>Means.</b>							2.3	1.6	0.9	0.3	0.4	
<b>1903</b>												
1	Frozen.	Frozen.	Frozen.	2.4	2.8	2.8	1.1	0.8	0.8	0.6	0.5	Frozen.
2				2.8	2.7	2.6	1.0	0.7	0.8	0.6	0.5	
3				2.7	2.9	2.4	1.6	0.9	0.7	0.6	0.5	
4				2.3	3.0	2.4	1.8	0.9	0.7	0.7	0.5	
5				2.1	3.1	2.3	1.8	0.9	0.6	0.9	0.5	
6				2.0	3.1	2.2	1.7	0.9	0.7	0.9	0.5	
7				2.0	3.2	2.2	1.6	0.8	0.6	0.7	0.6	
8			1.8	1.9	3.2	2.2	1.5	0.9	0.6	0.8	0.6	
9			3.3	2.0	3.3	2.1	1.4	0.9	0.6	0.9	0.5	
10			4.5	2.1	3.4	2.1	1.3	0.9	0.5	1.0	0.6	
11			4.5	1.9	3.6	2.0	1.2	0.9	0.5	0.8	0.5	
12			5.0	2.0	3.4	2.0	1.0	0.9	1.0	0.6	0.5	
13			5.0	1.9	3.3	1.9	1.0	0.8	0.6	0.6	0.5	
14			5.0	1.9	3.3	1.8	1.0	0.8	0.5	0.6	0.5	
15			4.5	1.9	3.4	1.8	0.9	0.8	0.5	0.5	0.7	
16			4.2	2.1	3.5	1.7	0.9	1.0	0.5	0.6	0.6	
17			3.9	2.2	3.5	1.7	0.9	0.9	0.5	0.5	0.6	
18			3.6	2.5	3.6	1.6	0.8	0.9	0.6	0.6	Frozen.	
19			3.9	2.7	3.7	1.6	0.8	0.8	0.5	0.6		
20			3.7	2.9	3.6	1.5	0.8	0.9	0.6	0.5		
21			3.2	2.8	3.6	1.5	0.7	0.7	0.5	0.5		
22			2.9	2.7	3.4	1.4	0.8	0.7	0.5	0.4		
23			2.7	2.7	3.5	1.4	0.7	0.8	0.4	0.5		
24			2.5	2.6	3.4	1.4	0.7	0.8	0.4	0.5		
25			2.5	2.6	3.3	1.2	0.7	0.8	0.4	0.5		
26			2.7	2.4	3.3	1.1	0.6	0.8	0.4	0.5		
27			2.7	2.4	3.2	1.0	0.8	0.7	0.4	0.5		
28			2.8	2.6	3.0	1.0	0.9	0.7	0.4	0.5		
29			3.3	2.7	2.9	0.9	0.9	0.8	0.5	0.5		
30			2.8	2.6	2.8	1.0	0.8	0.8	0.6	0.5		
31			2.7		2.8		0.8	0.8		0.5		
<b>Means.</b>			3.5	2.3	3.3	1.8	1.0	0.8	0.6	0.6	0.5	

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSOURI RIVER SYSTEM—JAMES RIVER, HURON, S. DAK.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1904</b>												
1.....	Frozen.	Frozen.	Frozen.	0.3	3.6	5.2	3.1	0.7	0.3	0.5	0.6	Frozen.
2.....				0.4	3.6	5.2	3.0	0.7	0.3	0.5	0.6	
3.....				0.5	3.7	5.2	2.9	0.6	0.3	0.5	0.6	
4.....				0.5	3.8	5.3	2.9	0.5	0.3	0.5	0.6	
5.....				0.3	3.9	5.3	2.9	0.5	0.3	0.5	0.6	
6.....				0.5	4.0	5.3	2.8	0.4	0.3	0.5	0.6	
7.....				0.6	3.9	5.2	2.7	0.4	0.3	0.6	0.6	
8.....				1.3	3.9	5.2	2.6	0.5	0.4	0.5	0.6	
9.....				3.3	3.8	5.2	2.5	0.6	0.3	0.7	0.6	
10.....				2.0	3.8	5.2	2.4	0.5	0.3	0.7	0.6	
11.....				1.0	3.6	5.1	2.3	0.5	0.4	0.8	0.6	
12.....				1.0	4.0	5.1	2.2	0.4	0.4	0.7	0.5	
13.....				1.0	3.9	5.0	2.1	0.4	0.2	0.8	0.5	
14.....				1.1	4.0	4.9	1.9	0.4	0.3	0.8	0.5	
15.....				1.1	4.1	4.8	2.0	0.3	0.4	0.7	0.5	
16.....				1.1	4.3	4.6	1.8	0.3	0.3	0.7	0.6	
17.....				1.1	4.5	4.5	1.7	0.3	0.4	0.8	0.6	
18.....				1.1	4.6	4.4	1.6	0.3	0.4	0.9	0.6	
19.....				1.1	4.6	4.2	1.6	0.4	0.4	0.8	0.6	
20.....				1.3	4.7	4.1	1.4	0.4	0.4	0.7	0.6	
21.....				1.5	4.7	4.0	1.3	0.4	0.4	0.7	0.5	
22.....				1.7	4.7	3.8	1.2	0.5	0.4	0.7	0.5	
23.....				2.5	4.8	3.6	1.1	0.5	0.4	0.7	0.5	
24.....				2.8	4.9	3.7	1.0	0.4	0.4	0.5	0.5	
25.....				2.8	4.9	3.6	0.9	0.4	0.4	0.6	0.6	
26.....				2.9	4.9	3.6	0.9	0.4	0.5	0.6	0.6	
27.....				3.0	5.0	3.5	0.9	0.4	0.5	0.6	0.6	
28.....				3.2	5.0	3.4	0.8	0.4	0.5	0.6	0.6	
29.....				3.3	5.0	3.3	0.8	0.3	0.5	0.6	Frozen.	
30.....				3.5	5.0	3.3	0.8	0.3	0.5	0.6		
31.....					5.1		0.8	0.3		0.6		
Means.				1.6	4.3	4.5	1.8	0.4	0.4	0.6	0.6	

## MISSOURI RIVER SYSTEM—REPUBLICAN RIVER, CLAY CENTER, KANS.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1904</b>												
1.....								7.2	6.5	6.0	6.6	6.7
2.....								7.0	6.5	6.0	6.6	6.7
3.....								7.3	6.3	6.1	6.7	6.4
4.....								7.1	6.1	6.1	6.6	6.6
5.....								6.9	6.4	6.2	6.6	6.6
6.....								6.9	6.2	6.3	6.5	6.5
7.....								6.9	5.8	6.2	6.7	6.6
8.....								6.8	6.4	6.4	6.6	6.6
9.....								6.8	6.4	6.3	6.6	6.6
10.....								7.0	6.4	6.3	6.6	6.6
11.....								7.6	6.5	6.2	6.6	6.6
12.....								7.3	6.4	6.2	6.6	6.5
13.....								7.0	6.4	6.2	6.5	6.2
14.....								6.8	6.4	6.4	6.6	5.9
15.....								6.8	6.1	6.4	6.5	6.1
16.....								6.9	6.0	6.3	6.5	6.2
17.....								6.9	6.1	6.2	6.5	6.4
18.....								6.9	6.1	6.3	6.6	6.1
19.....								6.8	6.1	6.9	6.6	6.4
20.....								6.8	6.1	6.4	6.5	6.3
21.....								6.9	5.9	6.6	6.5	6.5
22.....								6.7	6.0	6.4	6.6	6.6
23.....								7.5	5.9	6.3	6.6	6.8
24.....								7.2	6.0	7.1	6.6	6.5
25.....								6.8	5.7	7.1	6.6	6.2
26.....								6.8	5.9	7.0	6.6	6.1
27.....								6.6	5.9	7.0	6.7	6.8
28.....								6.6	5.9	6.9	6.6	5.6
29.....								6.5	5.9	6.8	6.6	Frozen.
30.....								6.4	6.1	6.7	6.6	
31.....								6.5		6.8		6.3
Means.								6.6	6.1	6.5	6.6	6.4

## MISSOURI RIVER SYSTEM—SMOKY HILL RIVER, ABILENE, KANS.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1												2.0
2												2.0
3												2.0
4												2.0
5												2.0
6												1.9
7												1.9
8												1.9
9												1.9
10												1.9
11												1.8
12												1.8
13												1.8
14												1.7
15												1.7
16												1.7
17												1.6
18												1.6
19												1.6
20												1.6
21												1.6
22											2.1	1.6
23											2.1	1.6
24											2.1	1.6
25											2.0	1.6
26											2.0	1.6
27											2.0	3.0
28											2.0	2.8
29											1.9	2.8
30											1.9	2.5
31												2.3
Means												1.9

## MISSOURI RIVER SYSTEM—KANSAS RIVER, MANHATTAN, KANS.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1								4.7	3.9	3.5	3.2	3.2
2								4.6	3.8	3.9	3.0	3.2
3								4.7	3.5	4.2	3.0	3.2
4								4.6	3.5	5.2	3.0	3.2
5								4.6	3.5	4.8	3.0	3.2
6								4.6	3.5	4.8	3.0	3.2
7								4.6	3.5	3.8	3.0	3.0
8								4.5	3.2	3.5	3.0	3.0
9								4.4	3.0	3.5	3.0	3.0
10								4.4	2.8	3.2	2.9	3.0
11								4.3	3.0	3.2	2.9	3.0
12								4.2	3.0	3.2	2.9	3.1
13								4.2	3.0	3.0	2.9	3.0
14								4.2	3.0	2.9	2.9	2.5
15								4.0	3.1	2.9	3.2	2.5
16								4.0	3.1	2.9	3.2	2.5
17								3.9	3.2	2.9	3.1	2.5
18								3.9	3.0	2.9	3.1	2.5
19								3.9	3.0	2.8	3.2	2.5
20								3.9	3.0	4.0	3.0	2.5
21								4.0	3.0	4.2	3.0	2.5
22								3.6	3.0	3.8	3.0	2.8
23								3.6	2.8	3.0	3.0	3.0
24								4.1	2.8	3.0	3.0	3.2
25								4.1	2.8	3.0	3.0	3.0
26								4.0	2.8	3.2	3.0	3.0
27								3.8	2.8	3.2	3.0	3.0
28								3.6	2.8	3.4	3.0	3.0
29								3.6	2.9	3.5	3.0	3.0
30								3.5	3.3	3.1	3.0	3.0
31								3.5		3.2		3.5
Means								4.2	3.1	3.5	3.1	2.9

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSOURI RIVER SYSTEM—KANSAS RIVER, TOPEKA, KANS.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.								9.4	7.1	7.6	6.4	6.2
2.								9.5	7.1	6.8	6.3	6.2
3.								9.3	7.0	6.9	6.3	6.2
4.								8.9	7.0	7.0	6.3	6.2
5.								8.7	6.9	6.9	6.2	6.2
6.								8.6	6.9	6.8	6.4	6.2
7.								8.5	6.8	6.7	6.4	6.2
8.								8.3	6.7	6.7	6.3	6.2
9.								8.2	6.7	6.6	6.3	6.2
10.								8.1	6.6	6.6	6.2	6.2
11.								8.1	6.6	6.6	6.2	6.2
12.								8.0	6.6	6.5	6.2	6.1
13.								8.0	6.6	6.5	6.3	6.1
14.								7.9	6.5	6.4	6.3	6.1
15.								7.8	6.6	6.3	6.3	Frozen.
16.								7.8	6.5	6.3	6.3	
17.								7.8	6.5	6.2	6.4	
18.								7.7	6.5	6.2	6.4	6.9
19.								7.7	6.4	6.1	6.4	7.0
20.								7.6	6.4	6.1	6.3	7.1
21.								7.6	6.3	6.1	6.3	7.1
22.								7.7	6.3	6.2	6.3	7.2
23.								7.6	6.3	6.8	6.3	7.2
24.								7.6	6.2	7.2	6.3	7.0
25.								7.6	6.2	6.7	6.3	6.8
26.								7.6	6.1	6.6	6.3	6.6
27.								7.6	6.1	6.5	6.3	Frozen.
28.								7.6	6.0	6.4	6.3	
29.								7.6	6.0	6.4	6.3	
30.								7.4	6.8	6.3	6.2	
31.								7.2		6.3		
Means.								8.0	6.5	6.6	6.3	6.5

## MISSOURI RIVER SYSTEM—OSAGE RIVER, BAGNELL, MO.

1900						
1.		2.1	2.2	7.1	3.1	
2.		2.3	2.2	5.0	3.0	
3.		2.5	2.1	4.7	3.0	
4.		3.4	2.0	4.7	2.8	
5.		4.9	2.0	4.1	2.5	
6.		12.9	1.9	3.9	2.5	
7.		17.0	1.9	3.6	2.6	
8.		16.8	1.8	3.8	2.3	
9.		16.2	1.7	3.5	2.1	
10.		14.0	2.2	3.5	2.1	
11.		13.8	4.8	3.5	2.2	
12.		12.0	9.3	3.2	2.5	
13.		10.3	10.0	3.0	2.5	
14.		10.0	7.5	2.8	3.4	
15.		9.3	5.5	2.5	2.8	
16.		7.1	4.8	2.3	2.7	
17.		5.6	4.5	2.3	2.6	
18.		4.4	4.4	2.3	2.5	
19.		3.7	4.4	2.3	2.6	
20.		3.3	4.7	2.6	2.7	
21.		3.1	5.4	4.8	4.6	
22.		2.9	5.5	5.1	4.6	
23.		2.8	5.2	5.3	4.3	
24.		2.6	5.1	5.3	3.6	
25.		2.7	5.4	5.2	4.0	
26.		2.6	6.3	4.3	3.3	
27.		2.5	7.7	3.7	3.2	
28.		2.3	7.9	3.0	2.9	
29.		2.1	7.6	2.2	2.6	
30.		2.0	7.4	2.5	2.3	
31.		1.9		2.6		
Means.		6.4	4.8	3.7	2.9	



## MISSOURI RIVER SYSTEM—OSAGE RIVER, BAGNELL, Mo.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1			2.5	6.4	3.2	1.2						
2			2.5	7.6	3.0	1.2						
3			2.5	7.4	2.8	1.1						
4			2.4	7.8	2.6	1.0						
5			2.4	8.8	2.4	1.0						
6			2.4	9.3	2.4	1.0						
7			2.3	9.7	2.6	1.0						
8			2.3	9.9	2.6	0.9						
9			2.2	9.7	2.6	0.9						
10			5.3	9.4	2.5	0.9						
11			13.5	8.9	2.4	0.9						
12			15.2	8.6	2.2	0.9						
13			15.0	8.3	2.1	0.9						
14			14.7	9.4	2.1	0.9						
15			12.6	11.3	2.0	0.9						
16			10.7	11.4	2.0	0.9						
17			9.2	10.7	2.0	0.9						
18			7.4	10.8	1.9	0.9						
19			5.3	10.8	1.9	0.9						
20			4.5	11.1	1.8	0.9						
21			5.0	10.3	1.9	0.9						
22			5.4	8.2	2.1	0.9						
23			6.9	6.3	2.7	0.9						
24			7.3	5.2	2.5	0.9						
25			7.0	4.7	2.3	0.9						
26			6.7	4.2	2.1	0.9						
27			6.0	3.9	2.0	0.9						
28			5.0	3.7	1.9	0.9						
29			4.4	3.5	1.7	0.9						
30			4.4	3.3	1.6	0.9						
31			4.7		1.4							
<b>Means.</b>			6.4	8.0	2.2	0.9						
<b>1902</b>												
1			10.0	4.4	11.8	9.1						
2			10.6	4.1	10.5	10.2						
3			8.8	3.9	7.8	9.2						
4			6.8	4.1	6.2	7.4						
5			5.1	4.2	5.2	6.0						
6			4.2	4.0	4.5	4.5						
7			3.6	3.9	4.6	8.4						
8			3.3	3.7	6.9	9.3						
9			3.0	3.5	5.1	9.5						
10			2.6	3.4	3.9	9.8						
11			2.4	3.3	3.8	8.8						
12			3.5	3.1	3.7	7.8						
13			9.6	3.3	3.4	7.0						
14			16.3	3.0	3.2	6.7						
15			17.4	2.8	3.1	6.5						
16			15.9	2.5	4.2	6.3						
17			12.8	2.2	6.6	5.5						
18			7.6	2.2	5.4	4.1						
19			5.1	2.2	4.0	3.0						
20			4.2	2.2	3.2	2.5						
21			4.1	2.1	2.9	2.7						
22			3.8	2.0	2.7	4.6						
23			3.6	2.0	2.4	5.1						
24			3.8	2.0	2.1	7.3						
25			3.6	1.9	6.2	8.6						
26			3.5	1.9	17.5	7.2						
27			3.3	1.9	18.2	6.4						
28			3.6	1.9	13.5	5.8						
29			4.8	2.9	12.0	8.7						
30			5.0	6.3	11.2	15.7						
31			4.7		9.7							
<b>Means.</b>			6.3	3.0	6.6	7.1						

## DESCRIPTION OF RIVER GAGES, ETC.

MISSOURI RIVER SYSTEM—OSAGE RIVER, BAGNELL, MO.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1			14.0	4.4	3.3	18.7						
2			14.1	4.2	3.8	18.8						
3			12.8	4.0	3.7	20.2						
4			11.7	4.4	3.5	21.4						
5			11.4	8.0	3.2	22.1						
6			11.3	9.3	3.5	23.0						
7			13.8	9.4	4.1	22.5						
8			19.8	9.5	4.4	21.1						
9			23.6	9.4	6.0	19.9						
10			25.0	9.3	5.5	17.9						
11			24.7	9.6	4.8	16.3						
12			23.5	10.9	4.3	15.0						
13			21.7	10.2	4.0	13.5						
14			18.5	10.1	7.6	12.2						
15			15.8	10.5	14.5	11.2						
16			14.5	10.2	16.9	9.5						
17			13.6	9.6	16.8	6.7						
18			12.1	8.3	15.6	4.6						
19			8.6	7.7	13.8	3.8						
20			7.0	5.6	13.1	3.6						
21			10.1	6.4	13.4	3.4						
22			13.2	6.1	13.1	4.7						
23			13.3	5.8	13.6	6.6						
24			11.7	5.6	14.4	11.5						
25			10.2	4.2	16.5	9.1						
26			8.4	3.8	17.5	5.3						
27			6.6	3.6	16.4	4.2						
28			5.6	3.3	14.7	7.4						
29			5.2	3.1	13.1	8.5						
30			4.9	3.0	13.3	7.9						
31			4.6		16.5							
Means.			13.3	7.0	10.2	12.4						
<b>1904</b>												
1			2.5	6.1	30.5	11.8	22.4					
2			2.4	5.4	28.9	10.1	21.2					
3			2.2	5.1	27.6	9.6	19.1					
4			2.1	4.8	25.8	11.8	16.7					
5			2.0	4.6	23.8	20.7	14.7					
6			2.2	4.3	20.5	24.5	13.5					
7			2.2	4.1	17.6	26.3	12.9					
8			2.2	4.4	16.5	26.4	14.0					
9			2.1	6.1	16.4	26.5	16.3					
10			2.1	9.1	15.8	27.2	17.2					
11			2.0	9.5	14.6	27.6	18.5					
12			1.9	8.5	12.4	27.9	17.8					
13			1.9	7.3	11.3	27.5	17.2					
14			1.8	6.3	10.0	26.5	17.8					
15			1.8	5.5	8.9	24.8	18.5					
16			1.9	5.2	9.0	21.7	19.1					
17			2.4	5.0	10.3	17.9	19.3					
18			2.6	4.7	11.3	14.4	19.1					
19			2.9	4.4	10.9	14.8	18.0					
20			3.1	3.9	10.0	14.0	16.0					
21			3.4	4.0	10.0	13.6	14.3					
22			3.6	4.9	9.5	13.8	12.3					
23			3.9	5.4	9.3	15.0	10.0					
24			4.2	17.0	9.5	14.9	8.0					
25			4.2	29.5	10.3	12.6	6.2					
26			6.4	33.4	10.0	12.3	4.9					
27			6.9	34.2	10.5	13.0	4.1					
28			9.4	34.1	13.5	16.3	3.6					
29			8.9	32.9	13.4	22.0	4.2					
30			7.9	32.1	12.4	22.6	5.3					
31			6.7		13.0		5.4					
Means.			3.5	11.4	14.6	18.9	13.8					

## MISSOURI RIVER SYSTEM—GASCONADE RIVER, ARLINGTON, MO.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	-1.2	-0.3	0.0	-1.0	1.4	0.0	.....	.....	.....	.....	.....	.....
2.....	-1.2	-0.4	2.0	-1.0	1.0	-0.2	.....	.....	.....	.....	.....	.....
3.....	-1.2	-0.5	2.1	-1.0	1.0	-0.4	.....	.....	.....	.....	.....	.....
4.....	-1.2	-0.5	2.5	-1.0	1.0	-0.6	.....	.....	.....	.....	.....	.....
5.....	-1.2	-0.5	3.5	-1.0	1.0	-0.6	.....	.....	.....	.....	.....	.....
6.....	-1.2	-0.5	5.8	-1.0	1.0	-0.6	.....	.....	.....	.....	.....	.....
7.....	-1.2	-0.5	6.0	-1.0	1.3	-0.6	.....	.....	.....	.....	.....	.....
8.....	-1.2	-0.5	6.2	-1.0	2.0	-0.4	.....	.....	.....	.....	.....	.....
9.....	-1.2	-0.3	5.2	-1.0	2.1	-0.4	.....	.....	.....	.....	.....	.....
10.....	-1.2	-0.3	2.9	0.0	3.9	-0.6	.....	.....	.....	.....	.....	.....
11.....	-1.2	-0.3	2.6	2.9	2.8	-0.6	.....	.....	.....	.....	.....	.....
12.....	-1.2	0.8	1.8	2.3	1.2	-0.4	.....	.....	.....	.....	.....	.....
13.....	-1.2	0.3	1.3	1.5	1.0	0.0	.....	.....	.....	.....	.....	.....
14.....	-1.2	0.2	0.9	1.0	1.0	1.8	.....	.....	.....	.....	.....	.....
15.....	-1.2	0.2	0.5	0.8	1.0	1.4	.....	.....	.....	.....	.....	.....
16.....	-1.2	0.2	0.7	0.4	1.0	1.0	.....	.....	.....	.....	.....	.....
17.....	-1.2	0.2	0.7	0.4	1.2	0.4	.....	.....	.....	.....	.....	.....
18.....	-0.2	0.0	0.4	0.4	1.4	0.0	.....	.....	.....	.....	.....	.....
19.....	0.0	0.0	0.0	1.0	1.4	0.0	.....	.....	.....	.....	.....	.....
20.....	0.5	0.0	0.0	1.0	1.0	0.0	.....	.....	.....	.....	.....	.....
21.....	0.7	0.0	-0.6	1.3	0.6	-0.3	.....	.....	.....	.....	.....	.....
22.....	0.8	-0.3	-0.6	1.3	0.4	-0.3	.....	.....	.....	.....	.....	.....
23.....	0.6	-0.5	-0.6	1.6	0.2	0.0	.....	.....	.....	.....	.....	.....
24.....	0.2	-0.5	-0.6	1.2	0.4	0.0	.....	.....	.....	.....	.....	.....
25.....	0.2	-0.5	-0.6	2.0	0.4	0.4	.....	.....	.....	.....	.....	.....
26.....	-0.4	-0.5	-0.8	2.0	0.2	0.8	.....	.....	.....	.....	.....	.....
27.....	-0.4	-0.3	-0.9	2.1	0.0	0.8	.....	.....	.....	.....	.....	.....
28.....	-0.4	0.0	-0.9	2.0	.....	0.8	.....	.....	.....	.....	.....	.....
29.....	-0.2	.....	-0.9	2.0	.....	0.4	.....	.....	.....	.....	.....	.....
30.....	-0.3	.....	-0.9	1.4	.....	0.4	.....	.....	.....	.....	.....	.....
31.....	-0.3	.....	-0.9	.....	.....	.....	.....	.....	.....	.....	.....	.....
Means.	-0.6	-0.2	1.2	0.7	1.0	0.1	.....	.....	.....	.....	.....	.....

## MISSOURI RIVER SYSTEM—MISSOURI RIVER, TOWNSEND, MONT.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	.....	.....	.....	.....	.....	.....	5.0	3.8	3.5	3.6	.....	.....
2.....	.....	.....	.....	.....	.....	.....	5.0	3.8	3.5	3.6	.....	.....
3.....	.....	.....	.....	.....	.....	.....	5.1	3.8	3.5	3.6	.....	.....
4.....	.....	.....	.....	.....	.....	.....	5.2	3.7	3.5	3.6	.....	.....
5.....	.....	.....	.....	.....	.....	.....	5.4	3.7	3.5	3.6	.....	.....
6.....	.....	.....	.....	.....	.....	.....	5.5	3.6	3.5	3.6	.....	.....
7.....	.....	.....	.....	.....	.....	.....	5.6	3.6	3.5	3.6	.....	.....
8.....	.....	.....	.....	.....	.....	.....	5.4	3.6	3.5	3.6	.....	.....
9.....	.....	.....	.....	.....	.....	.....	5.3	3.6	3.5	3.7	.....	.....
10.....	.....	.....	.....	.....	.....	.....	5.0	3.6	3.5	3.7	.....	.....
11.....	.....	.....	.....	.....	.....	.....	4.9	3.5	3.5	3.7	.....	.....
12.....	.....	.....	.....	.....	.....	.....	4.8	3.5	3.5	3.7	.....	.....
13.....	.....	.....	.....	.....	.....	.....	4.8	3.5	3.5	3.7	.....	.....
14.....	.....	.....	.....	.....	.....	.....	4.7	3.5	3.5	3.7	.....	.....
15.....	.....	.....	.....	.....	.....	.....	4.6	3.6	3.5	3.7	.....	.....
16.....	.....	.....	.....	.....	.....	.....	4.6	3.6	3.5	3.7	.....	.....
17.....	.....	.....	.....	.....	.....	.....	4.6	3.7	3.5	3.7	.....	.....
18.....	.....	.....	.....	.....	.....	.....	4.6	3.6	3.5	3.8	.....	.....
19.....	.....	.....	.....	.....	.....	.....	4.5	3.6	3.5	3.8	.....	.....
20.....	.....	.....	.....	.....	.....	.....	4.5	3.6	3.5	3.8	.....	.....
21.....	.....	.....	.....	.....	.....	.....	4.4	3.6	3.5	3.8	.....	.....
22.....	.....	.....	.....	.....	.....	.....	4.4	3.6	3.5	3.8	.....	.....
23.....	.....	.....	.....	.....	.....	.....	4.3	3.6	3.5	3.8	.....	.....
24.....	.....	.....	.....	.....	.....	.....	4.2	3.6	3.5	3.8	.....	.....
25.....	.....	.....	.....	.....	.....	.....	4.2	3.6	3.5	3.8	.....	.....
26.....	.....	.....	.....	.....	.....	.....	4.1	3.6	3.6	3.8	.....	.....
27.....	.....	.....	.....	.....	.....	.....	4.0	3.6	3.6	3.8	.....	.....
28.....	.....	.....	.....	.....	.....	.....	4.0	3.6	3.6	3.8	.....	.....
29.....	.....	.....	.....	.....	.....	.....	3.9	3.5	3.6	3.8	.....	.....
30.....	.....	.....	.....	.....	.....	.....	3.9	3.5	3.6	3.8	.....	.....
31.....	.....	.....	.....	.....	.....	.....	3.9	3.5	.....	3.8	.....	.....
Means.	.....	.....	.....	.....	.....	.....	4.7	3.6	3.5	3.7	.....	.....

## MISSOURI RIVER SYSTEM—MISSOURI RIVER, TOWNSEND, MONT.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1908</b>												
1				4.6	4.9	5.6	4.9	3.8	3.3	3.7		
2				4.5	4.8	6.1	4.9	3.8	3.3	3.7		
3				4.3	4.7	6.6	4.5	4.0	3.3	3.8		
4				4.3	4.7	7.1	4.4	3.9	3.3	3.8		
5				4.3	4.6	7.6	4.4	3.9	3.3	3.8		
6				4.2	4.7	7.8	4.4	3.8	3.3	3.8		
7				4.1	4.7	7.8	5.0	3.8	3.3	3.8		
8				4.1	5.0	7.9	5.2	3.8	3.3	3.9		
9				4.1	5.0	7.9	5.2	3.7	3.3	3.9		
10				4.1	5.0	7.9	5.1	3.7	3.3	3.9		
11				4.5	5.0	7.8	5.0	3.7	3.3	3.9		
12				4.5	5.0	7.5	4.9	3.6	3.3	3.9		
13				4.4	5.0	7.5	4.8	3.6	3.5	3.9		
14				4.3	5.0	7.5	4.7	3.5	3.7	3.9		
15				4.3	5.3	7.5	4.5	3.5	3.7	3.9		
16			6.7	4.3	5.8	7.5	4.4	3.4	3.7	3.9		
17			6.7	4.3	5.8	7.4	4.3	3.5	3.7	3.9		
18			6.7	4.3	5.9	7.3	4.4	3.4	3.7	3.9		
19			6.7	4.4	5.8	7.1	4.5	3.4	3.7	3.9		
20			6.7	4.6	5.8	6.8	4.4	3.4	3.7	3.9		
21			6.7	4.6	5.4	6.7	4.3	3.4	3.7	3.9		
22			6.7	4.6	5.3	6.5	4.3	3.4	3.7	3.9		
23			6.7	4.6	5.3	6.4	4.3	3.4	3.7	3.9		
24			6.4	4.8	5.1	6.4	4.2	3.4	3.7	3.9		
25			4.4	4.8	5.0	6.3	4.2	3.4	3.7	3.9		
26			4.3	4.9	5.0	6.1	4.2	3.3	3.7	3.9		
27			4.3	5.0	5.0	6.0	4.2	3.3	3.7	3.9		
28			4.5	5.1	5.0	5.7	4.0	3.3	3.7	3.9		
29			4.6	5.2	5.2	5.7	4.0	3.3	3.7	3.9		
30			4.7	5.0	5.3	4.9	4.0	3.3	3.7	3.9		
31			4.6		5.3		3.9	3.3		3.9		
Means			5.7	4.5	5.1	6.9	4.5	3.5	3.5	3.9		
<b>1904</b>												
1	Frozen.	Frozen.	Frozen.	4.1	6.3	7.5	5.6	4.2	3.8	3.8		
2				4.1	6.1	7.8	5.6	4.1	3.8	3.8		
3				4.1	6.0	8.0	5.5	3.9	3.8	3.8		
4				4.2	6.2	8.0	5.5	3.8	3.7	3.8		
5				4.4	6.4	7.7	5.5	3.8	3.7	3.8		
6				4.4	6.5	7.5	5.6	3.8	3.7	3.8		
7				4.3	6.2	7.3	5.5	3.7	3.7	3.8		
8				4.2	6.2	7.6	5.4	3.7	3.7	3.8		
9				4.2	6.1	7.5	5.3	3.6	3.7	3.8		
10				4.3	5.8	7.4	5.1	3.6	3.6	3.9		
11				4.4	5.8	7.4	5.1	3.6	3.6	3.9		
12				4.8	5.9	7.3	5.0	3.6	3.6	3.9		
13				4.8	6.0	7.2	4.9	3.6	3.6	3.9		
14				4.9	5.8	7.0	5.2	3.6	3.6	3.9		
15			4.4	5.0	6.0	6.9	5.0	3.6	3.6	3.9		
16			4.0	5.1	6.1	6.8	4.8	3.6	3.6	3.9		
17			4.0	5.0	6.2	6.8	4.7	3.6	3.6	3.9		
18			4.0	4.9	6.2	7.0	4.7	3.6	3.6	3.9		
19			4.0	4.9	6.3	7.0	4.6	3.6	3.6	3.9		
20			4.0	5.1	6.5	7.2	4.5	3.6	3.6	3.9		
21			4.1	5.3	6.8	7.0	4.4	3.6	3.6	3.9		
22			4.0	5.5	7.0	6.9	4.4	3.6	3.7	3.9		
23			4.0	5.6	7.3	6.7	4.4	3.6	3.7	3.9		
24			3.9	5.5	7.8	6.6	4.4	3.6	3.7	4.0		
25			3.5	5.6	8.3	6.5	4.4	3.5	3.7	4.0		
26			3.6	5.8	8.3	6.3	4.3	3.5	3.7	4.0		
27			3.8	5.6	8.0	6.2	4.2	3.5	3.7	4.0		
28			4.0	5.8	7.8	5.9	4.2	3.5	3.7	4.0		
29			4.1	6.1	7.4	5.7	4.2	3.6	3.8	4.0		
30			4.2	6.4	7.1	5.6	4.2	3.6	3.8	4.0		
31			4.2		7.4		4.2	3.6		4.0		
Means			4.0	4.9	6.6	7.0	4.9	3.7	3.7	3.9		

## MISSOURI RIVER SYSTEM—MISSOURI RIVER, FORT BENTON, MONT.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....							3.0	1.4	0.6	0.5		
2.....							3.0	1.3	0.6	0.6		
3.....							3.8	1.2	0.6	0.7		
4.....							3.5	1.1	0.5	0.8		
5.....							3.8	1.0	0.5	0.8		
6.....							3.6	0.9	0.6	0.8		
7.....							3.6	0.9	0.6	0.9		
8.....							3.6	0.8	0.6	0.8		
9.....							3.6	0.8	0.6	0.8		
10.....							3.6	0.7	0.5	0.8		
11.....							3.4	0.6	0.5	0.9		
12.....							3.2	0.6	0.5	0.9		
13.....							3.0	0.6	0.5	0.9		
14.....							2.9	0.6	0.4	0.9		
15.....							2.8	0.6	0.4	0.9		
16.....							2.7	0.6	0.3	0.9		
17.....							2.6	0.6	0.3	0.9		
18.....							2.5	0.5	0.4	0.9		
19.....							2.5	0.4	0.4	0.9		
20.....							2.4	0.4	0.5	0.9		
21.....							2.3	0.4	0.6	0.9		
22.....							2.2	0.5	0.6	0.9		
23.....							2.1	0.5	0.6	0.9		
24.....							2.1	0.5	0.5	0.9		
25.....							2.0	0.6	0.5	0.9		
26.....							1.9	0.6	0.5	0.9		
27.....							1.8	0.7	0.5	0.9		
28.....							1.8	0.7	0.5	0.9		
29.....							1.7	0.8	0.4	0.9		
30.....							1.6	0.7	0.4	1.0		
31.....							1.5	0.7	.....	1.0		
<b>Means.</b>							2.7	0.7	0.5	0.9		
<b>1903</b>												
1.....				2.5	2.7	4.2	3.6	1.5	0.6	0.9		
2.....				2.6	2.7	4.7	3.6	1.6	0.5	0.9		
3.....				2.6	2.6	5.1	3.8	1.5	0.4	1.0		
4.....				2.4	2.4	5.3	4.0	1.4	0.4	1.0		
5.....				2.1	2.4	5.7	4.2	1.4	0.4	1.1		
6.....				1.9	2.4	5.9	4.0	1.4	0.5	1.1		
7.....				1.7	2.4	6.0	3.9	1.3	0.5	1.1		
8.....				1.6	2.5	6.2	3.8	1.1	0.4	1.1		
9.....				1.5	2.7	6.3	3.7	1.1	0.6	1.1		
10.....				1.5	2.6	6.3	3.5	1.1	0.6	1.1		
11.....				1.5	2.7	6.1	3.4	1.1	0.6	1.2		
12.....				1.6	2.7	6.0	3.3	0.9	0.8	1.2		
13.....				1.7	2.7	6.0	3.2	0.9	0.8	1.2		
14.....				1.7	2.7	6.0	3.0	0.8	0.8	1.3		
15.....				1.8	2.9	6.0	2.8	0.7	0.9	1.3		
16.....			5.7	1.7	3.1	5.8	2.7	0.8	0.8	1.2		
17.....			6.0	1.7	3.3	5.7	2.6	0.8	0.8	1.3		
18.....			4.6	1.7	3.6	5.7	2.4	0.7	0.8	1.3		
19.....			1.8	1.7	3.8	5.6	2.2	0.6	0.8	1.3		
20.....			2.0	1.7	3.7	5.5	2.1	0.6	0.7	1.2		
21.....			1.7	1.7	3.7	5.3	2.1	0.6	0.7	1.2		
22.....			1.6	1.8	3.7	5.2	2.1	0.7	0.6	1.2		
23.....			1.7	1.9	3.7	4.9	2.1	0.8	0.7	1.2		
24.....			1.6	2.0	3.6	4.7	2.0	0.8	0.7	1.2		
25.....			1.6	2.1	3.5	4.5	1.9	0.8	0.8	1.2		
26.....			1.8	2.2	3.4	4.4	1.8	0.7	0.8	1.2		
27.....			1.7	2.3	3.5	4.3	1.6	0.8	0.8	1.2		
28.....			1.7	2.4	3.7	4.2	1.4	0.8	0.9	1.2		
29.....			2.4	2.6	3.8	4.0	1.3	0.8	0.9	1.1		
30.....			2.7	2.7	3.9	3.8	1.2	0.7	0.8	1.1		
31.....			2.5	.....	4.0	.....	1.6	0.7	.....	1.2		
<b>Means.</b>			2.6	2.0	3.1	5.3	2.7	1.0	0.7	1.2		

## MISSOURI RIVER SYSTEM—MISSOURI RIVER, FORT BENTON, MONT.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1904</b>												
1.....	Frozen.	Frozen.	.....	1.6	3.8	5.1	3.2	1.1	0.5	0.3	.....	.....
2.....	.....	.....	.....	1.6	3.9	5.0	3.2	1.0	0.5	0.4	.....	.....
3.....	.....	.....	.....	1.6	3.9	5.1	3.1	0.8	0.5	0.4	.....	.....
4.....	.....	.....	.....	2.0	3.9	5.2	3.1	0.9	0.5	0.5	.....	.....
5.....	.....	.....	.....	2.4	3.8	5.3	2.9	0.9	0.5	0.5	.....	.....
6.....	.....	.....	.....	2.2	3.8	5.4	2.9	0.9	0.4	0.5	.....	.....
7.....	.....	.....	.....	1.9	3.9	5.4	2.8	0.9	0.3	0.5	.....	.....
8.....	.....	.....	.....	1.8	4.0	5.3	2.5	0.8	0.3	0.5	.....	.....
9.....	.....	.....	.....	1.8	4.0	5.2	2.4	0.8	0.1	0.5	.....	.....
10.....	.....	.....	.....	1.7	3.9	5.1	2.3	0.8	0.1	0.5	.....	.....
11.....	.....	.....	.....	1.7	3.8	5.0	2.4	0.8	0.1	0.5	.....	.....
12.....	.....	.....	.....	2.1	3.7	5.0	2.4	0.9	0.1	0.5	.....	.....
13.....	.....	.....	.....	2.3	3.6	4.9	2.5	0.9	0.2	0.5	.....	.....
14.....	.....	.....	.....	2.4	3.6	4.8	2.4	0.8	0.2	0.5	.....	.....
15.....	.....	.....	.....	2.6	3.6	4.7	2.2	0.7	0.2	0.5	.....	.....
16.....	.....	.....	4.7	3.0	3.5	4.6	2.1	0.7	0.2	0.5	.....	.....
17.....	.....	.....	4.8	3.1	3.5	4.4	2.2	0.6	0.2	0.5	.....	.....
18.....	.....	.....	4.4	2.9	3.6	4.4	2.2	0.6	0.3	0.5	.....	.....
19.....	.....	.....	2.2	2.8	3.8	4.4	2.1	0.5	0.3	0.5	.....	.....
20.....	.....	.....	1.7	2.8	3.9	4.4	2.0	0.4	0.3	0.5	.....	.....
21.....	.....	.....	1.7	2.8	4.1	4.4	1.9	0.4	0.3	0.5	.....	.....
22.....	.....	.....	1.5	3.0	4.3	4.4	1.7	0.3	0.3	0.5	.....	.....
23.....	.....	.....	1.5	3.2	4.7	4.4	1.4	0.4	0.3	0.5	.....	.....
24.....	.....	.....	5.5	3.4	5.2	4.3	1.3	0.4	0.3	0.5	.....	.....
25.....	.....	.....	5.9	3.4	5.4	4.3	1.2	0.4	0.3	0.7	.....	.....
26.....	.....	.....	5.4	3.4	5.3	4.0	1.1	0.4	0.3	0.7	.....	.....
27.....	.....	.....	5.5	3.5	5.4	3.8	1.1	0.4	0.3	0.8	.....	.....
28.....	.....	.....	5.6	3.7	5.4	3.7	1.5	0.4	0.3	0.8	.....	.....
29.....	.....	.....	5.6	3.6	5.4	3.5	1.5	0.4	0.3	0.8	.....	.....
30.....	.....	.....	1.5	3.7	5.3	3.3	1.3	0.4	0.3	0.8	.....	.....
31.....	.....	.....	1.7	.....	5.3	.....	1.1	0.5	.....	0.8	.....	.....
Means.....	.....	.....	3.7	2.6	4.2	4.6	2.1	0.7	0.3	0.5	.....	.....

## MISSOURI RIVER SYSTEM—MISSOURI RIVER, BISMARCK, N. DAK.

<b>1900</b>												
1.....	1.6	4.2	1.9	10.4	5.6	6.8	6.8	2.1	1.3	1.1	1.4	2.6
2.....	1.6	4.2	1.9	10.0	4.8	7.9	6.6	2.1	1.1	1.0	1.4	2.6
3.....	1.7	4.1	1.9	12.8	5.1	8.5	6.6	2.0	1.1	1.0	1.4	2.6
4.....	1.8	4.1	1.8	9.8	5.5	8.4	6.3	2.0	1.1	1.0	1.3	2.5
5.....	2.0	4.0	2.0	7.7	5.9	7.8	6.0	1.9	1.0	1.0	1.3	2.4
6.....	2.0	4.0	2.2	4.6	5.5	7.5	5.8	1.9	1.1	1.0	1.3	2.3
7.....	2.2	3.7	2.5	3.4	4.9	7.4	5.8	1.9	1.1	1.0	1.3	2.2
8.....	2.4	3.6	2.8	3.2	4.7	7.6	5.8	1.9	1.2	1.1	1.3	2.2
9.....	2.5	3.2	3.2	3.2	4.7	7.7	5.5	1.9	1.1	1.2	1.4	2.3
10.....	2.8	2.9	3.7	3.3	4.7	8.0	5.3	1.8	1.1	1.2	1.5	2.4
11.....	3.0	2.7	4.1	3.1	4.8	8.1	4.9	1.8	1.3	1.1	1.5	2.7
12.....	3.3	2.6	5.1	3.0	5.0	8.2	4.8	1.9	1.5	1.1	1.5	2.9
13.....	3.5	2.5	5.5	3.0	5.5	8.2	4.7	1.9	1.5	1.0	1.5	3.0
14.....	3.6	2.5	6.5	2.9	5.6	7.8	4.3	1.9	2.0	1.0	1.5	3.2
15.....	3.5	2.5	7.3	2.9	5.6	7.8	4.2	2.1	2.7	1.1	1.7	3.3
16.....	3.3	2.5	8.0	2.8	6.2	7.6	3.9	4.4	2.9	1.1	3.3	3.4
17.....	2.9	2.6	8.1	2.8	6.8	7.3	3.6	4.5	2.5	1.2	3.2	3.5
18.....	2.8	2.6	8.2	2.9	7.0	7.1	3.5	3.9	2.0	1.2	2.2	3.6
19.....	2.8	2.5	8.4	3.2	6.9	7.0	3.4	3.4	1.7	1.2	2.1	3.6
20.....	2.8	2.4	8.8	3.2	7.4	7.2	3.3	3.1	1.5	1.3	2.1	3.6
21.....	2.8	2.3	9.2	3.3	7.7	7.4	3.2	2.8	1.3	1.3	2.1	3.6
22.....	3.1	2.2	9.6	3.2	7.5	7.3	3.1	2.6	1.2	1.3	1.3	3.6
23.....	3.2	2.2	9.8	3.2	7.0	7.1	3.0	2.4	1.3	1.3	1.3	3.6
24.....	3.4	2.0	9.9	3.2	6.8	7.1	2.9	2.1	1.5	1.3	1.6	3.8
25.....	3.6	1.8	9.9	3.2	6.6	6.9	2.6	2.0	1.6	1.3	1.7	3.9
26.....	3.6	1.9	10.2	3.1	6.6	6.8	2.6	2.0	1.7	1.3	1.8	3.7
27.....	3.7	2.0	10.4	3.1	6.4	6.8	2.6	1.9	1.8	1.4	2.0	3.5
28.....	4.0	2.8	10.8	2.9	6.5	7.0	2.6	1.8	1.6	1.4	2.2	3.5
29.....	4.1	.....	10.8	2.9	6.5	7.1	2.5	1.6	1.5	1.4	2.3	3.5
30.....	4.2	.....	10.8	6.1	6.5	7.0	2.4	1.5	1.2	1.4	2.5	3.4
31.....	4.2	.....	10.7	.....	6.6	.....	2.3	1.4	.....	1.4	.....	3.4
Means.....	3.0	2.8	6.6	4.4	6.0	7.5	4.2	2.3	1.5	1.2	1.8	3.1

## MISSOURI RIVER SYSTEM—MISSOURI RIVER, BISMARCK, N. DAK.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	3.3	2.5	3.0	7.3	1.6	8.4	7.0	3.9	1.3	1.0	0.9	1.6
2.....	3.3	2.7	3.1	8.2	1.6	8.5	6.7	3.7	1.3	1.1	0.9	1.7
3.....	3.2	2.9	3.2	4.9	1.6	9.2	6.7	3.5	1.3	1.4	0.9	1.9
4.....	3.0	3.0	3.3	3.6	1.9	9.7	6.7	3.4	1.2	2.0	0.8	1.5
5.....	2.9	3.2	3.4	3.1	1.9	10.2	6.8	3.6	1.2	2.5	0.7	1.6
6.....	2.8	3.2	3.6	2.6	2.0	9.5	6.6	3.4	1.1	2.7	0.7	1.6
7.....	2.6	3.3	3.8	3.1	2.2	9.0	7.6	3.3	1.1	2.7	0.7	1.6
8.....	2.4	3.4	3.9	2.8	2.4	8.7	7.8	2.9	1.0	2.5	-0.3	1.4
9.....	2.3	3.4	4.1	2.2	2.7	9.0	6.6	2.7	0.9	2.4	-0.1	1.4
10.....	2.1	3.4	4.2	2.4	4.4	8.7	5.9	2.6	1.0	2.0	-0.5	1.6
11.....	1.9	3.4	4.4	2.5	5.8	8.3	5.6	2.6	2.1	1.7	-0.3	1.7
12.....	1.7	3.3	4.6	2.4	5.8	7.8	5.4	2.9	2.1	1.5	-0.1	1.5
13.....	1.6	3.2	4.8	2.2	5.6	7.7	5.3	2.9	2.7	1.3	0.5	3.4
14.....	1.5	3.1	5.0	2.2	5.4	7.6	5.6	2.7	2.8	1.3	0.5	4.1
15.....	1.4	3.0	5.1	2.2	5.2	7.8	5.8	2.5	2.6	1.2	0.7	4.0
16.....	1.2	3.0	5.2	2.0	5.3	8.2	6.0	2.3	2.4	1.1	0.9	3.8
17.....	1.2	3.0	5.3	2.0	5.4	7.8	5.9	2.2	2.2	1.0	0.7	3.4
18.....	1.0	2.9	5.3	2.0	5.4	7.5	5.9	2.1	2.2	1.0	0.8	3.2
19.....	0.9	2.8	5.5	1.9	5.6	7.2	6.4	2.0	2.2	1.0	0.6	3.2
20.....	0.9	2.6	5.5	1.8	5.9	6.9	5.7	1.9	2.2	1.0	0.6	3.1
21.....	0.8	2.6	5.9	1.7	6.4	6.8	5.3	1.8	2.2	1.0	0.7	3.0
22.....	0.9	2.6	6.2	1.6	7.0	6.7	4.9	1.7	2.0	1.1	0.6	2.5
23.....	1.0	2.6	6.3	1.5	8.0	6.5	4.8	1.6	2.0	1.1	0.5	2.4
24.....	1.2	2.7	6.4	1.5	8.6	6.6	4.8	1.5	2.0	1.1	0.8	2.3
25.....	1.4	2.7	6.6	1.5	9.2	6.8	4.7	1.3	1.9	1.1	1.0	2.2
26.....	1.6	2.8	7.1	1.6	9.5	7.0	4.6	1.2	1.5	1.1	1.1	2.0
27.....	1.8	2.9	7.5	1.6	9.7	7.3	4.4	1.2	1.3	1.0	1.2	1.9
28.....	1.9	2.9	7.6	1.6	9.8	9.0	4.3	1.2	1.2	1.0	0.9	1.7
29.....	2.0	.....	7.6	1.6	9.2	8.5	4.1	1.1	1.0	1.0	1.4	1.6
30.....	2.1	.....	7.6	1.6	8.8	7.4	4.0	1.1	1.0	1.0	1.5	1.5
31.....	2.3	.....	7.4	.....	8.4	.....	4.0	1.1	.....	1.0	.....	1.4
Means.	1.9	3.0	5.2	2.6	5.6	8.0	5.7	2.3	1.7	1.4	0.6	2.3
<b>1902</b>												
1.....	1.3	3.0	2.6	8.4	2.3	6.2	6.8	5.1	2.0	0.5	0.6	2.3
2.....	1.2	2.8	3.0	7.9	2.6	6.6	6.8	5.0	2.1	0.5	0.6	2.4
3.....	1.4	2.5	3.2	7.6	2.6	8.7	6.7	4.8	2.1	0.6	0.6	2.4
4.....	1.8	2.4	3.5	7.0	2.5	9.3	6.6	4.8	1.9	0.6	0.6	2.4
5.....	2.3	2.0	3.8	5.5	2.5	9.0	7.0	4.6	1.8	0.5	0.6	2.5
6.....	2.5	1.7	4.1	5.0	2.5	9.0	6.7	4.5	1.7	0.5	0.6	2.8
7.....	2.8	1.5	4.6	4.9	2.7	9.3	6.4	4.4	1.7	0.5	0.6	2.6
8.....	3.0	1.3	5.1	5.4	3.1	9.2	6.3	4.2	1.7	0.5	0.7	2.5
9.....	3.2	1.1	5.8	5.5	3.3	8.8	6.9	4.0	1.5	0.5	0.7	2.4
10.....	3.4	1.0	6.6	5.0	3.5	8.2	7.4	3.9	1.4	0.5	0.7	2.4
11.....	3.5	0.8	7.3	7.3	3.6	7.9	7.2	3.8	1.4	0.5	0.8	2.4
12.....	3.6	0.7	7.9	6.2	3.5	7.9	7.2	3.7	1.3	0.5	0.8	2.4
13.....	3.7	0.5	8.0	5.5	3.7	7.9	7.6	3.5	1.2	0.5	0.7	2.4
14.....	3.8	0.5	8.0	4.4	3.9	7.9	6.8	3.4	1.1	0.5	2.7	2.3
15.....	3.8	0.4	8.2	3.4	3.9	8.6	6.3	3.4	1.0	0.4	2.8	2.3
16.....	3.9	0.7	8.8	3.1	3.7	8.8	6.0	3.3	0.9	0.4	2.0	2.2
17.....	3.9	0.9	9.3	3.0	3.6	8.8	6.0	3.1	0.8	0.9	2.2	2.2
18.....	3.9	1.2	9.4	2.8	3.5	8.5	6.0	3.0	0.7	0.7	2.0	2.2
19.....	3.8	1.4	9.6	2.8	3.4	8.4	6.0	3.0	0.7	0.6	2.1	2.2
20.....	3.7	1.5	9.6	2.7	3.5	8.4	6.0	2.9	0.6	0.6	2.3	2.1
21.....	3.7	1.6	9.3	2.7	5.0	8.1	6.0	2.9	0.6	0.6	1.9	2.1
22.....	3.7	1.7	9.0	2.7	6.0	7.6	6.0	2.7	0.6	0.7	2.4	2.0
23.....	3.7	1.7	8.7	2.6	7.4	7.3	6.0	2.7	0.6	0.7	2.2	1.9
24.....	3.7	2.0	8.8	2.6	7.1	7.0	6.2	2.6	0.6	0.7	2.6	1.8
25.....	3.7	2.1	9.0	2.5	6.9	6.8	6.2	2.6	0.6	0.7	2.6	2.0
26.....	3.7	2.2	9.1	2.5	6.9	6.7	5.9	2.5	0.5	0.7	2.2	2.0
27.....	3.6	2.3	9.1	2.4	7.1	6.4	5.8	2.5	0.5	0.7	2.0	2.2
28.....	3.4	2.3	9.5	2.4	7.4	6.4	5.6	2.3	0.5	0.7	2.0	2.4
29.....	3.3	.....	8.3	2.3	7.6	6.5	5.5	2.2	0.5	0.7	1.8	2.6
30.....	3.2	.....	8.4	2.3	7.3	6.7	5.3	2.2	0.5	0.6	1.8	2.8
31.....	3.1	.....	8.3	.....	6.7	.....	5.2	2.0	.....	0.6	.....	3.0
Means.	3.2	1.6	7.3	4.3	4.5	7.9	6.3	3.4	1.1	0.6	1.5	2.3

## MISSOURI RIVER SYSTEM MISSOURI RIVER, BISMARCK, N. DAK.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1908												
1.	3.0	4.2	3.3	4.5	2.2	4.3	7.7	4.7	3.9	1.8	1.5	0.5
2.	2.9	4.1	3.2	4.5	2.1	4.2	7.5	4.8	4.0	1.7	1.5	0.6
3.	2.9	4.1	3.2	4.8	2.1	4.2	7.7	4.7	4.0	1.6	1.5	0.8
4.	2.9	4.1	3.2	5.3	2.0	4.1	8.2	4.6	4.2	1.5	1.5	1.1
5.	3.1	4.1	3.3	5.4	2.1	4.4	8.7	4.6	3.8	1.4	1.5	1.2
6.	3.2	4.1	3.5	12.4	2.2	4.8	8.8	5.8	3.4	1.4	1.4	1.6
7.	3.4	4.1	3.6	8.4	2.2	4.9	8.4	6.1	3.3	1.4	1.4	1.8
8.	3.6	4.1	3.8	7.5	2.7	5.3	7.8	5.8	3.1	1.2	1.4	1.3
9.	3.8	4.0	3.9	5.0	2.9	6.6	7.3	5.4	2.8	1.3	1.4	1.3
10.	3.9	4.0	4.1	4.2	3.0	7.3	7.2	5.3	2.6	1.4	1.3	1.5
11.	4.0	4.0	4.1	4.0	3.2	7.8	7.0	5.0	2.2	1.4	1.3	1.7
12.	4.0	3.8	4.1	3.5	3.3	8.0	6.9	4.6	2.0	1.4	1.2	2.2
13.	4.0	3.8	4.1	3.1	3.3	8.2	6.9	4.4	1.9	1.5	1.2	2.3
14.	3.9	3.8	4.1	2.7	3.3	8.2	6.9	4.4	1.8	1.6	1.2	2.3
15.	3.9	3.8	3.9	2.6	3.2	8.0	6.8	4.2	1.7	1.6	0.8	2.3
16.	3.9	3.8	3.9	2.6	3.1	7.9	6.6	4.0	1.7	1.7	1.5	2.5
17.	4.0	3.8	3.9	2.6	3.0	7.9	6.5	3.8	1.8	1.6	1.4	2.3
18.	4.2	3.7	3.8	2.6	3.1	7.9	6.3	3.7	1.8	1.7	0.2	2.3
19.	4.3	3.6	3.8	2.6	3.1	7.9	6.1	3.5	1.9	1.7	0.4	2.3
20.	4.4	3.6	4.0	2.7	3.1	8.2	6.1	3.5	2.0	1.7	0.4	1.9
21.	4.4	3.5	4.1	2.6	3.2	8.5	6.0	3.6	2.5	1.6	0.0	1.7
22.	4.4	3.5	4.1	2.6	3.3	8.6	6.0	3.4	2.7	1.6	0.1	1.7
23.	4.4	3.5	4.2	2.6	3.6	8.7	5.8	3.2	2.7	1.6	0.2	1.7
24.	4.4	3.5	4.2	2.5	5.4	8.7	5.7	3.4	2.6	1.6	0.1	0.7
25.	4.3	3.5	4.2	2.4	5.5	8.7	5.7	3.1	2.5	1.6	0.2	0.6
26.	4.2	3.5	4.2	2.4	5.5	8.6	6.1	2.8	2.3	1.5	0.3	0.7
27.	4.2	3.5	4.2	2.4	5.8	8.6	6.2	2.7	2.2	1.5	0.6	0.3
28.	4.2	3.4	4.2	2.3	5.2	8.4	5.3	2.8	2.1	1.5	0.5	0.2
29.	4.2		4.2	2.2	4.9	8.1	5.2	3.2	2.0	1.5	0.5	0.3
30.	4.2		4.3	2.2	4.9	7.9	4.9	3.9	1.9	1.5	0.5	0.3
31.	4.2		4.3		4.8		4.7	3.7		1.5		0.3
Mean	3.9	3.8	3.9	3.8	3.5	7.2	6.7	4.2	2.6	1.5	0.9	1.4
1909												
1.	0.1	0.9	0.6	4.9	4.9	7.4	7.2	4.6	1.3	-0.1	0.2	-0.5
2.	0.7	0.8	0.3	3.8	4.9	7.0	6.8	4.5	1.3	-0.1	0.1	-0.2
3.	0.8	0.5	1.3	6.0	4.0	6.9	6.5	4.3	1.1	-0.1	0.1	0.0
4.	1.1	0.4	1.4	6.1	3.8	7.3	6.2	4.1	1.1	-0.2	0.1	0.5
5.	1.3	0.1	1.4	6.4	3.6	7.9	6.2	4.0	1.1	-0.3	0.1	0.9
6.	1.6	0.4	1.8	8.3	3.6	8.6	6.5	3.9	0.9	-0.5	0.1	0.9
7.	1.6	0.7	1.8	14.2	3.8	8.7	7.1	3.8	0.9	-0.5	0.1	0.8
8.	1.9	0.9	2.0	13.5	4.1	8.7	7.3	3.6	1.1	-0.5	0.0	0.5
9.	2.0	0.8	1.9	12.6	4.6	8.8	7.3	3.4	1.5	-0.5	0.0	0.3
10.	2.0	0.4	1.9	10.6	4.8	8.5	6.9	3.3	1.7	-0.5	0.0	0.1
11.	2.0	0.5	1.9	10.1	3.1	7.4	6.6	3.1	1.6	-0.3	0.0	0.1
12.	1.7	0.4	1.9	9.6	3.4	7.6	6.5	2.9	1.2	-0.4	0.1	0.4
13.	1.6	0.3	2.1	8.7	3.5	8.0	6.5	2.7	1.1	-0.5	0.1	0.6
14.	1.6	0.5	2.0	8.4	3.2	8.0	6.4	2.7	1.1	-0.4	0.1	1.2
15.	1.6	0.4	2.1	7.6	3.0	7.6	6.4	2.5	1.1	-0.4	0.1	1.3
16.	1.6	1.4	2.4	7.6	4.6	7.9	6.3	2.4	0.8	-0.4	0.2	1.6
17.	1.3	1.6	2.6	7.2	4.6	8.0	6.2	2.2	0.6	-0.4	0.5	2.0
18.	1.2	1.5	2.7	6.4	4.3	8.6	6.4	2.1	0.6	-0.4	0.7	2.2
19.	1.1	1.6	2.9	5.5	4.4	8.2	6.2	2.1	0.6	-0.3	0.9	2.5
20.	1.1	1.4	2.9	5.4	4.3	8.2	6.2	2.0	0.4	-0.3	1.0	2.6
21.	1.2	0.6	2.8	5.1	4.1	8.6	6.1	2.0	0.3	-0.3	1.0	2.7
22.	1.1	0.6	3.1	5.1	4.3	8.6	5.9	2.2	0.2	-0.4	1.0	2.8
23.	1.3	0.6	2.2	5.1	4.3	8.4	5.8	2.1	0.2	-0.5	0.9	2.9
24.	1.4	0.6	2.5	4.8	4.4	8.4	5.5	1.9	0.1	-0.5	0.8	2.3
25.	1.3	0.5	2.5	4.8	4.4	8.5	5.5	1.9	0.1	-0.5	0.8	2.5
26.	1.3	0.5	2.5	4.8	4.4	8.5	5.5	1.9	0.1	-0.5	0.8	2.5
27.	1.4	0.5	2.6	4.4	4.4	8.5	5.5	1.9	0.1	-0.5	0.8	2.5
28.	1.3	0.5	2.6	4.4	4.4	8.5	5.5	1.9	0.1	-0.5	0.8	2.5
29.	1.3	0.5	2.6	4.4	4.4	8.5	5.5	1.9	0.1	-0.5	0.8	2.5
30.	1.3	0.5	2.6	4.4	4.4	8.5	5.5	1.9	0.1	-0.5	0.8	2.5
31.	1.3	0.5	2.6	4.4	4.4	8.5	5.5	1.9	0.1	-0.5	0.8	2.5
Mean	1.4	0.5	2.2	7.1	3.1	7.9	6.1	3.7	2.7	-0.3	0.4	1.8



## DESCRIPTION OF RIVER GAGES, ETC.

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## MISSOURI RIVER SYSTEM—MISSOURI RIVER, PIERRE, S. DAK.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	Frozen.	Frozen.	Frozen.	5.2	3.8	6.8	7.4	3.1	2.6	2.9	1.9	Frozen.
2.....				5.1	6.6	6.8	7.5	3.1	2.3	2.7	2.0	Frozen.
3.....				5.1	6.5	7.0	7.4	3.0	2.2	2.7	2.2	Frozen.
4.....				5.6	6.1	8.5	7.6	2.9	2.1	2.6	1.9	Frozen.
5.....				7.9	5.8	8.8	7.4	2.8	1.9	2.4	1.9	Frozen.
6.....				8.5	6.4	8.7	7.3	2.7	2.1	2.3	1.9	Frozen.
7.....				7.2	6.9	8.1	7.0	2.7	2.2	2.1	1.8	Frozen.
8.....				5.6	6.6	7.9	6.7	2.6	2.3	2.0	1.8	Frozen.
9.....				5.2	6.2	8.0	6.6	2.6	2.1	1.9	1.8	Frozen.
10.....				4.3	5.6	7.7	6.6	2.6	2.0	1.9	1.8	Frozen.
11.....				4.1	5.4	7.5	6.6	2.7	1.9	1.8	1.8	Frozen.
12.....			2.2	3.9	5.5	8.1	6.5	2.9	2.3	1.8	1.8	Frozen.
13.....			2.5	4.0	5.4	8.4	6.2	2.8	2.9	1.9	1.7	Frozen.
14.....			4.2	4.0	5.4	8.5	5.8	3.4	2.8	1.9	1.7	Frozen.
15.....			2.0	3.8	5.7	8.4	5.6	3.1	2.9	2.0	1.6	Frozen.
16.....			3.5	3.7	6.0	8.1	5.3	3.6	3.1	1.9	1.6	Frozen.
17.....			5.3	3.6	6.2	8.2	5.2	3.7	2.7	1.9	1.7	Frozen.
18.....			5.7	3.5	6.4	7.8	5.0	3.3	3.3	1.8	1.6	Frozen.
19.....			6.0	3.5	7.4	7.6	4.5	3.8	3.4	1.8	1.6	Frozen.
20.....			6.1	3.4	7.7	7.6	4.3	5.2	3.4	1.8	1.5	Frozen.
21.....			6.8	3.4	7.3	7.8	4.4	5.6	3.4	1.7	1.5	Frozen.
22.....			4.4	3.6	7.6	7.6	4.3	5.5	3.2	1.7	1.5	Frozen.
23.....			5.8	3.8	7.8	7.8	4.1	4.8	2.8	1.7	1.5	Frozen.
24.....			4.0	3.8	7.6	7.8	4.0	4.3	2.5	1.8	1.5	Frozen.
25.....			4.0	3.8	7.0	7.7	3.8	4.0	2.4	1.8	1.5	Frozen.
26.....			4.4	3.7	6.9	7.6	3.7	3.8	2.4	1.8	1.5	Frozen.
27.....			4.4	3.7	6.8	7.5	3.6	3.6	2.9	1.8	1.5	Frozen.
28.....			4.6	3.8	6.8	7.3	3.4	3.4	3.1	1.8	1.5	Frozen.
29.....			5.1	3.8	6.6	7.1	3.3	3.0	2.8	1.8	1.5	Frozen.
30.....			5.3	3.8	6.5	7.3	3.2	2.8	3.0	1.8	1.5	Frozen.
31.....			5.3	.....	6.6	.....	3.1	2.7	.....	1.8	.....	.....
<b>Means</b>			4.7	4.5	6.4	7.8	5.4	3.1	2.6	2.0	1.8	.....
<b>1901</b>												
1.....	Frozen.	Frozen.	Frozen.	5.5	2.6	8.4	9.0	5.3	3.1	2.9	2.5	1.9
2.....				5.4	2.6	8.2	8.3	5.3	3.0	2.8	2.4	2.0
3.....				6.3	2.6	8.2	7.8	5.2	2.9	2.7	2.4	2.1
4.....				8.3	2.6	8.4	7.8	5.1	2.8	2.6	2.4	2.0
5.....				7.1	2.6	9.1	7.7	5.0	2.9	2.5	2.4	1.7
6.....				5.5	2.6	9.4	7.6	4.9	3.0	2.4	2.6	1.4
7.....				4.8	2.7	9.6	7.7	4.7	3.1	2.5	2.2	0.9
8.....				4.2	2.7	9.4	7.6	4.6	6.3	2.6	2.1	0.7
9.....				4.0	2.7	9.2	8.5	4.6	4.0	3.0	2.0	0.9
10.....				4.1	2.8	9.0	8.7	4.6	3.0	3.2	2.0	1.2
11.....				4.2	2.8	9.1	7.8	4.8	2.8	3.4	1.8	1.2
12.....				3.8	4.0	8.7	7.1	4.4	3.0	3.4	1.8	1.2
13.....				3.4	6.4	8.3	6.7	4.2	3.2	3.3	1.6	1.5
14.....			2.9	3.3	6.6	8.5	6.4	4.2	3.2	3.1	1.6	Frozen.
15.....			2.8	3.3	6.4	9.3	6.1	4.2	2.8	2.9	1.5	Frozen.
16.....			3.0	3.2	5.4	9.0	6.1	4.2	2.9	2.8	1.5	Frozen.
17.....			2.8	3.2	5.3	9.5	6.3	4.2	3.4	2.6	1.4	Frozen.
18.....			3.5	3.2	5.2	9.8	6.3	4.1	3.6	2.6	1.4	Frozen.
19.....			3.2	3.0	5.4	9.6	6.6	4.0	3.6	2.6	1.4	Frozen.
20.....			2.4	3.0	5.4	8.9	6.6	3.9	3.4	2.5	1.3	Frozen.
21.....			1.8	2.9	5.4	8.4	6.6	3.9	3.4	2.5	1.2	Frozen.
22.....			2.0	2.8	5.5	8.4	6.7	4.0	3.2	2.5	1.2	Frozen.
23.....			3.4	2.8	6.0	8.0	6.4	3.9	3.2	2.5	1.2	Frozen.
24.....			3.4	2.7	7.0	7.8	6.0	3.9	3.4	2.5	1.2	Frozen.
25.....			3.2	2.6	7.4	7.7	5.8	3.8	3.2	2.5	1.4	Frozen.
26.....			2.9	2.6	7.6	7.6	5.7	3.7	3.2	2.5	1.6	Frozen.
27.....			3.0	2.7	7.9	7.6	5.6	3.5	3.2	2.5	1.8	Frozen.
28.....			3.2	2.7	9.2	7.6	5.6	3.3	3.2	2.5	1.8	Frozen.
29.....			3.4	2.6	9.2	7.9	5.6	3.2	3.2	2.6	1.7	Frozen.
30.....			3.7	2.6	9.2	9.5	5.6	3.1	3.2	2.6	1.8	Frozen.
31.....			4.0	.....	8.8	.....	5.4	3.1	.....	2.6	.....	.....
<b>Means</b>			3.0	3.9	5.2	8.7	6.8	4.2	3.3	2.7	1.8	.....

## MISSOURI RIVER SYSTEM—MISSOURI RIVER, PIERRE, S. DAK.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	Frozen.	Frozen.	Frozen.	6.3	4.6	7.6	7.2	5.9	3.5	1.4	1.5	0.2
2.....				6.0	6.1	6.8	7.5	6.3	3.3	1.4	1.5	-0.2
3.....				6.0	5.5	6.2	7.6	5.5	3.0	1.4	1.6	-0.2
4.....				5.9	5.5	6.5	7.3	5.4	2.9	1.4	1.6	-0.2
5.....				5.6	5.7	8.5	7.5	5.3	2.8	1.4	1.6	Frozen.
6.....				5.3	5.2	8.5	7.2	5.1	2.7	1.4	1.6	
7.....				6.6	4.1	8.5	7.2	5.1	2.7	1.4	1.6	
8.....				5.7	3.9	8.5	7.6	5.0	2.6	1.4	1.6	
9.....				5.1	4.0	8.9	7.3	4.8	2.3	1.4	1.6	
10.....				5.2	4.1	9.2	7.0	4.7	2.3	1.4	1.8	
11.....				5.9	4.1	8.0	6.9	4.5	2.2	1.4	1.6	
12.....			4.0	6.1	4.1	8.0	7.6	4.4	2.2	1.4	1.6	
13.....			3.5	7.2	4.1	7.7	7.9	4.3	2.2	1.4	1.4	
14.....			3.6	7.0	4.2	7.7	7.8	4.3	2.2	1.4	1.4	
15.....			4.8	6.1	4.2	8.1	8.3	4.2	2.1	1.4	1.3	
16.....			5.7	5.7	4.2	7.9	7.8	4.1	2.1	1.4	1.1	
17.....			5.6	4.4	4.2	7.9	6.8	4.0	2.0	1.4	0.9	
18.....			5.2	4.1	4.3	8.8	6.5	3.9	1.9	1.4	0.8	
19.....			5.2	4.1	4.4	8.7	6.2	3.8	1.9	1.4	0.6	
20.....			7.7	4.0	4.4	8.7	6.2	4.3	1.8	1.4	0.5	
21.....			5.5	3.8	4.8	8.4	6.2	4.6	1.7	1.4	0.4	
22.....			6.2	3.8	6.0	8.4	6.4	4.1	1.7	1.4	0.2	
23.....			4.8	3.9	5.2	8.5	6.4	5.0	1.6	1.4	0.2	
24.....			5.5	3.8	6.6	8.0	6.3	5.6	1.6	1.3	0.2	
25.....			5.2	4.0	7.6	7.5	6.2	4.4	1.6	1.3	0.2	
26.....			5.5	4.4	7.3	7.5	6.4	4.1	1.6	1.3	0.2	
27.....			5.5	5.0	7.2	7.5	6.4	4.0	1.5	1.3	0.3	
28.....			6.3	5.6	7.2	7.5	6.4	4.2	1.5	1.3	0.2	
29.....			8.0	5.1	7.3	7.2	6.2	4.0	1.5	1.4	0.0	
30.....			6.7	5.0	7.4	7.0	6.0	3.7	1.5	1.4	-0.1	
31.....			6.6		7.6		5.9	3.6		1.5		
Means.....			5.6	5.2	5.3	7.8	6.9	4.6	2.2	1.4	1.0	
<b>1903</b>												
1.....	Frozen.	Frozen.	Frozen.	2.5	3.3	6.0	8.4	6.4	4.6	3.5	2.1	Frozen.
2.....				3.1	3.2	5.9	8.2	5.8	4.8	3.4	2.1	
3.....				2.8	3.2	5.7	7.8	5.5	5.5	3.3	2.2	
4.....				2.7	3.1	5.5	7.6	6.0	5.3	3.3	2.2	
5.....				3.0	3.1	5.3	7.5	6.1	5.2	3.1	2.2	
6.....				2.9	3.1	5.6	8.2	5.9	5.2	3.0	2.2	
7.....				2.8	3.0	5.2	8.5	6.0	5.0	2.9	2.2	
8.....				6.0	3.0	5.2	9.0	6.1	4.9	2.7	2.1	
9.....				9.0	3.0	5.4	8.3	5.9	4.8	2.6	2.1	
10.....				7.5	3.0	5.7	8.1	6.2	4.5	2.5	2.2	
11.....				6.2	3.3	7.3	7.5	6.3	4.3	2.5	2.3	
12.....				5.1	3.3	7.7	7.2	6.1	4.4	2.4	2.4	
13.....				4.8	3.4	7.9	7.2	5.8	4.4	2.2	2.4	
14.....				4.6	3.6	8.2	7.1	5.9	4.2	2.2	2.3	
15.....				4.2	3.8	8.3	6.8	6.3	4.0	2.1	2.3	
16.....				3.9	3.9	8.3	7.2	5.7	3.8	2.1	2.3	
17.....				3.5	4.0	8.3	7.0	5.9	3.6	2.0	2.1	
18.....				3.3	4.0	8.3	6.9	5.4	3.8	2.0	2.0	
19.....				3.5	4.0	8.3	6.7	5.2	3.8	1.9	Frozen.	
20.....				3.6	4.5	8.1	6.6	5.1	3.7	2.0		
21.....				3.5	4.3	8.0	6.6	4.9	3.6	2.0		
22.....				3.5	4.3	8.1	6.0	4.8	3.6	2.0		
23.....				3.7	4.0	8.5	5.9	4.7	3.5	1.9		
24.....				3.6	3.9	8.8	5.8	5.0	3.5	1.9		
25.....				3.6	4.3	9.2	5.7	4.8	3.4	1.8		
26.....				3.6	6.6	8.9	6.3	4.9	3.4	1.8		
27.....				3.5	7.0	8.9	6.0	4.9	3.4	1.9		
28.....				3.5	7.1	8.7	5.8	4.9	3.3	2.0		
29.....				3.6	6.8	8.9	6.5	4.8	3.4	2.1		
30.....			3.8	3.3	6.3	8.8	6.6	4.6	3.5	2.1		
31.....			3.9		6.1		6.6	4.5		2.1		
Means.....				4.0	4.2	7.4	7.1	5.5	4.1	2.4	2.2	

## MISSOURI RIVER SYSTEM—MISSOURI RIVER, PIERRE, S. DAK.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	Frozen.	Frozen.	Frozen.	5.0	6.2	9.2	9.2	5.6	4.1	2.3	1.8	1.3
2.....				4.4	6.5	9.1	8.8	5.5	4.1	2.4	1.9	1.0
3.....				5.1	6.6	8.4	8.3	5.5	4.0	2.2	1.9	-0.4
4.....				4.9	6.5	8.3	8.0	5.4	4.6	2.1	1.9	0.0
5.....				5.2	6.5	8.4	7.8	5.4	4.0	2.0	1.8	-0.6
6.....				6.6	6.5	9.5	7.8	5.4	3.7	1.9	1.8	-0.8
7.....				6.2	6.6	10.3	7.6	5.3	3.6	2.0	1.8	-1.0
8.....				6.8	6.5	10.5	7.8	5.2	3.5	1.9	1.8	-1.2
9.....				10.2	6.4	10.6	8.0	5.1	3.4	1.9	1.9	-1.3
10.....				12.7	6.5	10.4	8.4	5.0	3.2	1.9	1.8	-0.9
11.....				11.8	6.3	9.5	8.5	5.0	3.2	1.9	1.8	-0.2
12.....				10.9	6.4	9.4	8.3	4.9	3.0	1.8	1.8	0.4
13.....				10.7	6.3	9.1	8.1	4.8	3.1	1.7	1.8	Frozen.
14.....				10.0	6.6	9.2	7.6	4.7	3.2	1.7	1.8	.....
15.....				9.5	7.0	9.4	7.7	4.6	3.3	1.7	1.8	.....
16.....				9.1	6.7	9.0	7.4	4.5	3.2	1.7	1.7	.....
17.....				8.7	6.6	8.8	7.4	4.4	3.1	1.7	1.8	.....
18.....				8.8	6.4	9.2	7.4	4.3	3.0	1.8	1.8	.....
19.....				8.1	6.3	9.2	7.3	4.1	2.9	2.1	1.8	.....
20.....				7.5	6.1	9.0	7.2	4.2	2.8	1.9	1.8	.....
21.....				7.2	6.5	8.7	7.2	4.1	2.7	1.8	1.8	.....
22.....			5.3	6.9	5.9	8.8	7.0	3.9	2.6	1.7	1.8	.....
23.....			4.4	6.5	5.8	9.5	6.9	3.8	2.6	1.7	1.8	.....
24.....			3.5	6.8	5.9	9.2	6.8	3.7	2.5	1.7	1.7	.....
25.....			2.5	6.6	5.9	9.6	6.6	3.7	2.5	1.7	1.7	.....
26.....			2.3	6.6	6.1	9.4	6.5	3.8	2.4	1.6	1.6	.....
27.....			1.8	6.4	6.1	9.5	6.4	3.8	2.4	1.6	1.6	.....
28.....			3.3	6.4	7.5	9.5	6.2	3.7	2.3	1.5	1.5	.....
29.....			5.2	6.2	8.6	9.4	5.9	3.7	2.3	1.6	1.5	.....
30.....			5.0	6.1	8.7	9.3	5.8	3.6	2.3	1.7	1.4	.....
31.....			4.8	.....	9.0	.....	5.6	3.6	.....	1.8	.....	.....
Means.	.....	.....	.....	7.6	6.6	9.3	7.4	4.5	3.1	1.8	1.8	.....

## MISSOURI RIVER SYSTEM—MISSOURI RIVER, SIOUX CITY, IOWA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	Frozen.	Frozen.	Frozen.	8.7	7.8	10.1	9.9	6.3	6.2	5.6	4.9	Frozen.
2.....				7.8	7.7	9.9	9.7	6.1	6.0	5.2	4.9	.....
3.....				7.9	7.6	9.9	9.8	6.0	5.7	5.5	4.9	.....
4.....				8.2	7.6	9.9	9.9	5.8	5.6	5.8	4.9	.....
5.....				8.3	7.7	9.9	10.3	5.8	5.6	5.9	4.9	.....
6.....				8.4	9.9	9.9	10.4	5.7	5.4	5.9	4.9	.....
7.....				10.2	9.9	11.6	10.5	5.6	5.2	5.9	4.9	.....
8.....				12.4	9.4	11.8	10.7	5.7	4.9	5.7	4.9	.....
9.....				11.3	9.3	11.2	10.7	5.8	4.8	5.6	5.0	.....
10.....				9.9	9.2	10.7	10.3	5.8	4.8	5.3	5.0	.....
11.....				8.8	10.4	10.5	9.8	5.6	5.0	5.2	5.0	.....
12.....				7.9	9.8	10.5	9.5	5.5	5.8	4.9	5.0	.....
13.....				7.5	9.5	10.7	9.2	5.4	5.6	4.7	5.0	.....
14.....				7.3	9.2	11.0	9.1	5.4	5.6	4.7	4.8	.....
15.....				7.2	8.7	11.3	9.5	5.7	5.5	4.6	4.8	.....
16.....				7.3	8.7	11.4	11.2	5.6	5.2	4.6	4.8	.....
17.....				7.4	8.6	12.0	10.9	5.6	5.4	4.6	4.7	.....
18.....				7.7	8.5	11.5	10.6	5.8	5.5	4.5	4.5	.....
19.....				7.8	8.4	10.9	10.0	6.1	5.8	4.7	5.5	.....
20.....				7.7	8.7	11.0	9.7	6.3	5.8	4.7	4.2	.....
21.....				7.4	9.4	11.1	9.3	6.2	5.8	4.7	Frozen.	.....
22.....				7.3	11.0	11.0	8.9	6.0	5.9	4.8	.....	.....
23.....				7.1	11.2	10.9	8.6	6.0	5.7	5.0	.....	.....
24.....				7.0	10.7	11.0	8.2	6.1	6.1	5.3	.....	.....
25.....			9.7	7.0	10.5	10.9	8.1	6.7	6.1	5.6	.....	.....
26.....			7.7	7.3	10.7	10.7	8.1	7.8	6.0	5.5	.....	.....
27.....			7.0	7.6	10.4	10.6	7.6	8.0	6.0	5.6	.....	.....
28.....			6.8	7.9	10.0	10.5	7.2	7.5	5.9	5.0	.....	.....
29.....			6.9	8.1	9.9	10.2	6.9	7.0	5.8	5.0	.....	.....
30.....			7.1	7.9	10.0	10.0	6.6	6.5	5.6	4.8	.....	.....
31.....			9.6	.....	10.0	.....	6.5	6.3	.....	5.0	.....	.....
Means.	.....	.....	.....	8.1	9.4	10.8	9.3	6.1	5.6	5.2	4.9	.....

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSOURI RIVER SYSTEM—MISSOURI RIVER, SIOUX CITY, IOWA—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	Frozen.	Frozen.	Frozen.	5.9	6.1	11.6	10.5	8.5	6.0	6.6	5.7	4.7
2.....				5.9	6.0	11.4	11.6	8.5	5.8	6.4	5.7	4.9
3.....				5.9	6.0	10.9	12.5	8.4	5.7	6.4	5.9	5.0
4.....				6.1	6.0	10.7	11.8	8.4	5.6	6.4	5.8	5.1
5.....				7.9	6.3	10.5	11.4	8.4	5.5	6.4	5.8	5.1
6.....				9.3	6.5	10.9	11.0	8.2	5.5	6.3	5.8	5.0
7.....				10.7	6.6	11.4	10.8	7.9	5.5	6.1	5.8	5.0
8.....				9.0	6.6	12.3	10.8	7.7	5.5	6.1	5.8	5.0
9.....				7.7	6.5	12.7	10.9	7.6	5.8	6.0	5.8	Frozen.
10.....				7.1	6.5	12.5	10.8	7.8	6.1	5.9	5.8	
11.....				6.8	6.3	12.0	10.9	7.7	6.5	5.9	5.7	
12.....				6.8	6.3	11.8	10.9	7.8	9.1	5.7	5.7	
13.....			7.0	6.6	6.2	11.9	12.1	7.9	8.4	5.7	5.6	
14.....			5.5	6.4	6.2	12.0	11.7	8.0	8.6	6.2	5.5	
15.....			5.3	6.9	6.2	11.9	10.7	7.9	8.7	6.2	5.5	
16.....			4.9	7.0	6.2	12.1	10.2	7.6	6.5	6.5	5.4	
17.....			4.9	6.9	9.3	12.9	9.9	7.2	6.3	6.7	5.2	
18.....			5.2	6.8	9.5	13.4	9.6	6.9	6.3	6.8	5.2	
19.....			5.1	6.6	9.1	12.6	9.5	6.9	6.5	6.7	5.1	
20.....			5.2	6.4	9.1	13.0	9.3	6.8	6.4	6.7	5.0	
21.....			6.5	6.5	9.0	13.5	9.3	6.7	6.3	6.4	5.0	
22.....			6.1	6.5	9.0	13.1	9.5	6.7	6.3	6.2	5.0	
23.....			5.9	6.5	9.1	12.8	9.6	6.6	6.4	6.0	4.9	
24.....			5.9	6.3	9.0	12.1	9.8	6.5	6.7	5.9	4.9	
25.....			5.8	6.2	8.8	11.8	9.6	6.4	7.0	5.7	4.9	
26.....			5.6	6.2	8.8	11.1	9.4	6.3	7.0	5.8	4.8	
27.....			5.6	6.1	11.0	10.6	9.3	6.3	7.0	5.7	4.8	
28.....			5.7	6.0	11.0	10.2	9.2	6.3	7.2	5.6	4.7	
29.....			5.9	6.1	11.1	10.6	8.8	6.3	6.9	5.7	4.7	
30.....			6.1	6.1	11.4	10.5	8.6	6.1	6.6	5.7	4.7	
31.....			6.0		11.5		8.4	6.0		5.7		
Means.....			5.7	6.5	8.0	11.8	10.3	7.3	6.6	6.1	5.3	
<b>1902</b>												
1.....	Frozen.	Frozen.	Frozen.	10.7	8.7	10.6	10.3	9.6	7.9	6.1	5.7	4.8
2.....				9.8	9.2	10.8	10.4	9.6	8.0	6.0	5.8	4.7
3.....				9.5	8.9	11.0	10.3	9.4	8.0	5.9	5.8	4.7
4.....				9.3	8.7	10.7	10.3	9.3	7.8	5.9	5.9	4.7
5.....				8.8	9.9	10.2	10.5	9.4	7.7	6.0	5.8	Frozen.
6.....				8.9	10.0	9.6	11.2	9.5	7.5	5.9	5.8	
7.....				8.7	9.2	9.2	11.2	9.4	7.3	5.8	5.8	
8.....				8.6	8.7	11.0	10.8	9.0	7.2	5.8	5.8	
9.....				8.2	8.4	12.3	10.8	8.9	6.8	5.8	5.8	
10.....			7.0	8.6	8.3	12.2	10.5	8.8	6.8	5.8	5.8	
11.....			6.2	8.9	8.1	12.3	10.6	8.7	6.8	5.8	5.9	
12.....			6.5	9.1	7.7	12.4	10.6	8.7	6.6	5.8	5.9	
13.....			6.6	9.0	7.6	12.3	10.5	8.6	6.6	5.8	5.8	
14.....			6.8	8.2	7.7	12.0	10.2	8.3	6.5	5.8	5.9	
15.....			6.8	9.1	7.8	11.6	10.4	8.3	6.4	5.8	5.9	
16.....			7.0	10.6	8.0	10.9	11.1	8.4	6.3	5.8	5.9	
17.....			6.9	10.2	8.0	11.0	11.2	8.4	6.3	5.8	5.9	
18.....			6.9	9.3	7.8	11.4	11.4	8.2	6.2	5.7	5.9	
19.....			4.7	8.8	8.0	11.3	11.4	8.1	6.2	5.8	5.8	
20.....			5.3	8.4	8.2	11.5	10.8	8.2	6.3	5.8	5.7	
21.....			4.9	7.7	8.2	12.0	10.0	8.1	6.8	5.8	5.6	
22.....			6.1	7.5	8.3	11.8	9.7	7.9	7.2	5.8	5.5	
23.....			5.9	7.2	8.4	11.4	9.6	7.8	7.7	5.7	5.4	
24.....			9.4	7.5	8.4	11.1	9.6	8.0	7.4	5.7	5.3	
25.....			8.1	7.7	8.2	11.2	9.6	8.3	7.5	5.7	5.2	
26.....			8.9	7.3	9.6	10.9	9.6	8.8	7.0	5.6	5.1	
27.....			9.4	7.1	11.0	10.7	9.8	9.4	6.6	5.6	5.0	
28.....			8.8	7.5	11.0	10.4	9.6	10.1	6.4	5.6	4.8	
29.....			8.7	7.4	10.6	10.3	9.6	9.3	6.2	5.7	4.8	
30.....			8.5	7.5	10.4	10.1	9.5	8.4	6.1	5.6	4.7	
31.....			11.4		10.8		9.5	8.1		5.6		
Means.....			7.3	8.6	8.8	11.1	10.3	8.7	6.9	5.8	5.6	

## MISSOURI RIVER SYSTEM—MISSOURI RIVER, SIOUX CITY, IOWA—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	Frozen.	Frozen.	Frozen.	6.8	7.9	11.3	12.3	11.7	8.5	6.4	5.4	Frozen.
2.....				7.1	7.9	10.6	12.2	11.5	8.8	6.6	5.4	
3.....				8.3	7.7	10.2	12.3	10.9	8.4	6.7	5.5	
4.....				8.5	7.7	9.8	12.2	10.2	8.1	6.7	5.6	
5.....				7.8	7.7	9.2	11.9	10.4	8.0	6.7	5.5	
6.....				7.4	7.6	9.1	11.8	10.1	8.3	6.7	5.5	
7.....				7.5	7.6	9.0	11.7	9.9	8.9	7.7	5.5	
8.....				7.6	7.6	8.8	11.8	10.0	9.0	7.1	5.5	
9.....				7.5	7.6	8.8	12.2	10.2	8.9	7.0	5.5	
10.....				7.6	7.7	8.8	13.2	10.3	8.8	7.0	5.4	
11.....				11.7	7.9	8.8	13.2	10.0	8.8	7.0	5.4	
12.....			10.2	11.4	8.7	8.7	12.5	9.9	8.7	7.1	5.3	
13.....			8.7	10.1	9.0	8.7	11.7	10.0	8.6	6.8	5.4	
14.....			7.9	9.1	8.9	9.7	11.3	10.2	8.4	6.5	5.4	
15.....			7.7	8.3	8.7	11.4	11.0	10.3	8.2	6.4	5.3	
16.....			7.7	8.0	8.7	11.5	11.0	9.9	8.3	6.2	5.3	
17.....			7.9	7.7	8.8	11.7	11.1	9.7	8.3	6.1	4.9	
18.....			7.8	7.7	8.7	11.6	11.1	10.3	8.0	6.0	Frozen.	
19.....			8.2	7.5	8.7	11.6	11.8	10.7	8.3	5.9		
20.....			7.7	7.3	8.6	11.6	11.3	10.1	8.7	5.8		
21.....			7.6	7.5	8.5	11.5	11.3	10.0	8.7	5.8		
22.....			7.6	7.5	8.7	11.6	11.0	9.4	8.2	5.7		
23.....			7.8	7.6	9.2	11.6	10.8	8.9	7.8	5.7		
24.....			7.7	7.7	9.9	11.8	10.7	8.8	7.5	5.6		
25.....			7.5	7.6	10.4	12.1	10.7	8.5	7.4	5.6		
26.....			7.2	7.6	10.6	12.4	10.7	8.4	7.0	5.6		
27.....			6.8	7.8	10.6	12.4	10.4	8.2	6.7	5.6		
28.....			7.0	7.9	10.3	12.5	10.2	8.4	6.5	5.5		
29.....			6.9	8.0	11.5	12.2	10.2	8.7	6.4	5.5		
30.....			6.7	8.0	12.3	12.2	11.8	8.7	6.4	5.5		
31.....			6.7		12.0		11.6	8.4		5.4		
Means.			7.7	8.0	9.0	10.7	11.5	9.8	8.1	6.3	5.4	
<b>1904</b>												
1.....	Frozen.	Frozen.	Frozen.	6.8	8.9	11.7	11.6	8.9	5.7	5.2	4.6	4.8
2.....				7.9	8.8	12.1	11.3	8.7	5.6	5.1	4.6	4.6
3.....				7.9	8.7	11.7	11.3	8.5	6.0	5.1	4.6	4.5
4.....				8.0	8.8	11.8	11.2	8.4	6.5	5.0	4.6	4.2
5.....				8.5	8.8	11.6	11.1	8.3	6.3	4.9	4.6	4.3
6.....				8.6	9.2	11.4	10.9	8.2	6.2	4.8	4.6	3.2
7.....				8.8	9.5	10.9	10.6	8.2	6.3	4.9	4.7	2.8
8.....				8.9	9.4	10.8	10.6	8.2	6.7	5.0	4.8	2.8
9.....				10.3	9.2	12.9	10.5	8.3	7.3	5.0	4.8	2.9
10.....				9.1	9.2	13.3	10.4	8.3	7.4	5.1	4.9	3.0
11.....				10.4	9.3	13.3	10.3	8.1	6.8	5.0	4.9	2.7
12.....				14.9	9.3	13.1	10.8	8.0	6.3	4.9	4.9	2.9
13.....				15.4	9.3	12.8	11.0	7.9	6.1	4.9	4.8	2.5
14.....				14.0	9.2	12.3	11.3	7.7	5.8	4.9	4.8	2.3
15.....				13.3	9.2	11.9	11.2	7.6	5.7	4.8	4.8	4.0
16.....				12.7	9.2	11.5	11.0	7.5	5.7	4.7	4.9	4.2
17.....				11.8	9.1	11.3	10.8	7.3	5.6	4.6	4.9	3.6
18.....			7.8	11.5	9.6	11.2	10.6	7.2	5.6	4.6	4.9	3.5
19.....			8.0	11.0	9.7	11.0	10.5	7.2	5.5	4.6	4.9	3.8
20.....			11.4	10.8	9.5	10.9	10.4	7.2	5.7	5.4	4.9	4.2
21.....			10.2	10.7	9.3	10.9	10.2	7.3	5.8	5.7	4.9	4.1
22.....			9.3	10.6	9.3	11.0	10.1	7.2	5.9	5.6	4.9	3.9
23.....			8.4	10.2	9.2	10.8	10.2	7.2	5.8	5.3	4.9	4.0
24.....			7.5	9.4	9.0	10.5	10.2	7.1	5.7	5.2	4.9	3.8
25.....			7.4	9.3	8.9	10.5	10.0	6.8	5.6	5.2	4.9	4.2
26.....			8.5	9.2	8.7	11.0	9.8	6.6	5.5	5.1	4.9	4.4
27.....			6.3	9.2	8.6	11.7	9.6	6.5	5.4	5.0	4.9	3.9
28.....			6.1	9.1	8.6	11.9	9.5	6.2	5.3	4.9	4.9	3.5
29.....			5.8	9.0	8.7	11.7	9.3	6.0	5.2	4.8	4.9	3.7
30.....			5.8	9.1	8.7	11.7	9.2	5.9	5.2	4.7	4.9	3.8
31.....			5.8		9.5		9.0	5.8		4.7		3.8
Means.				10.2	9.1	11.6	10.5	7.5	5.9	5.0	4.8	3.7

\* 15.7 at 6 p. m.

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSOURI RIVER SYSTEM—MISSOURI RIVER, OMAHA, NEBR.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	Frozen.	Frozen.	Frozen.	8.8	8.3	9.9	10.0	8.3	7.5	6.4	6.4	3.7
2.....				8.9	8.2	10.0	9.9	8.2	7.2	6.3	6.4	3.8
3.....				8.5	8.1	9.9	9.7	8.1	7.1	6.1	6.3	4.1
4.....				8.3	8.0	9.7	9.7	7.9	6.9	6.0	6.3	4.2
5.....				8.5	7.9	9.6	9.7	7.6	6.7	6.1	6.3	4.2
6.....				8.4	7.9	9.6	10.0	7.4	6.6	6.2	6.2	4.2
7.....				8.4	9.2	9.5	10.2	7.2	6.5	6.3	6.1	4.2
8.....				9.5	9.5	10.3	10.2	7.0	6.4	6.4	6.1	4.3
9.....				11.7	9.3	11.2	10.4	6.9	6.1	6.3	6.0	4.3
10.....				11.6	9.0	11.2	10.5	6.8	5.9	6.2	5.9	4.4
11.....				10.6	9.4	10.7	10.3	6.8	5.9	6.2	5.9	4.4
12.....				9.7	9.9	10.2	9.8	6.8	6.0	6.0	5.9	4.5
13.....			7.1	9.1	9.6	10.2	9.4	6.8	7.0	5.9	5.8	4.0
14.....			6.4	8.7	9.2	10.3	9.2	7.2	7.0	5.7	5.8	3.5
15.....			6.3	8.4	9.0	10.5	9.1	7.0	6.7	5.6	5.8	3.3
16.....			6.4	8.2	8.7	11.0	9.5	7.1	6.7	5.6	5.8	3.1
17.....			6.9	8.2	8.5	11.2	10.5	7.3	6.7	5.4	5.7	3.2
18.....			8.6	8.2	8.5	11.5	10.4	7.2	6.5	5.3	5.7	3.3
19.....			6.4	8.2	8.5	11.6	10.5	7.1	6.4	5.3	5.7	3.5
20.....			5.9	8.3	8.4	11.2	10.2	7.1	6.6	5.3	5.6	3.8
21.....	5.0		5.2	8.2	8.3	11.1	9.8	7.3	6.8	5.4	5.6	3.8
22.....	5.0		5.0	8.0	8.6	11.1	9.5	7.5	6.9	5.5	5.2	4.0
23.....	Frozen.		5.0	7.9	9.8	10.9	9.3	7.3	6.9	5.5	4.6	4.2
24.....			5.4	7.8	10.5	10.8	9.4	7.3	6.9	5.5	4.0	4.3
25.....			6.2	7.7	10.4	10.9	9.2	7.4	6.9	5.6	3.9	3.3
26.....			8.7	7.7	10.2	10.8	9.0	7.5	6.8	5.7	3.8	2.8
27.....			8.4	7.7	10.6	10.5	9.0	8.2	6.7	5.9	3.7	2.6
28.....			7.7	7.8	10.5	10.6	8.9	8.8	6.6	6.1	3.7	2.6
29.....			7.5	8.0	10.2	10.3	8.7	8.5	6.6	6.2	3.6	3.0
30.....			7.6	8.2	9.9	10.2	8.5	8.0	6.5	6.2	3.7	2.8
31.....			7.7		9.9		8.3	7.7		6.4		2.7
<b>Means.</b>			6.7	8.6	9.2	10.6	9.6	7.5	6.7	5.9	5.4	4.6
<b>1901</b>												
1.....	3.0	6.4	6.8	6.4	6.8	11.9	11.2	8.9	6.8	7.1	5.9	4.5
2.....	3.2	6.2	6.6	6.5	6.7	12.1	11.0	8.8	6.7	6.9	5.8	4.5
3.....	3.1	6.3	7.2	6.5	6.7	12.0	11.4	8.9	6.6	6.8	5.8	4.5
4.....	3.5	6.6	7.0	6.5	6.6	11.8	12.4	8.9	6.5	6.8	5.8	4.6
5.....	4.2	6.6	6.1	6.4	6.7	11.5	12.3	8.8	6.4	6.7	5.8	4.7
6.....	4.9	6.6	5.0	6.3	6.7	11.3	11.5	8.8	6.3	6.5	5.7	4.7
7.....	5.2	6.5	7.7	7.5	6.7	11.3	11.1	8.7	6.2	6.4	5.7	4.7
8.....	5.2	6.4	7.8	9.9	6.8	11.6	10.8	8.4	6.2	6.4	5.7	4.6
9.....	5.7	6.6	5.3	10.1	6.9	12.2	10.8	8.3	6.4	6.3	5.7	4.6
10.....	6.1	6.7	4.9	8.9	7.0	12.8	10.8	8.2	6.5	6.2	5.7	4.6
11.....	6.2	6.7	4.9	8.2	7.0	12.8	10.8	8.1	6.6	6.2	5.6	4.5
12.....	6.3	6.7	4.6	7.7	6.9	12.6	10.7	8.0	6.9	6.3	5.6	3.7
13.....	6.5	6.4	5.6	7.5	6.9	13.3	10.7	8.0	8.5	6.3	5.5	3.5
14.....	6.6	6.5	6.9	7.4	6.8	12.4	11.4	8.0	8.8	6.2	5.5	Frozen.
15.....	6.3	6.3	6.0	7.3	6.7	12.5	11.5	8.1	8.1	6.2	5.5	
16.....	6.2	6.1	5.8	7.4	6.7	12.6	10.8	8.3	7.0	6.3	5.4	
17.....	6.2	6.0	5.5	7.6	6.7	12.5	10.3	8.1	6.7	6.3	5.4	
18.....	6.4	5.9	5.6	7.5	8.1	13.0	10.0	7.9	6.7	6.5	5.3	
19.....	6.5	5.9	5.5	7.5	9.3	13.2	9.8	7.6	6.7	6.7	5.2	
20.....	6.6	6.2	5.6	7.4	9.1	13.2	9.6	7.4	6.7	6.9	5.1	
21.....	6.7	6.4	5.7	7.3	9.0	13.2	9.5	7.3	6.7	6.9	5.0	
22.....	6.7	6.7	5.7	7.2	8.7	13.7	9.5	7.3	6.3	6.9	4.9	
23.....	6.6	7.1	6.2	7.2	8.8	13.8	9.5	7.3	6.2	6.8	4.8	
24.....	6.7	Frozen.	6.2	7.2	8.8	13.6	9.6	7.2	6.4	6.7	4.7	
25.....	6.7		6.2	7.2	8.7	13.5	9.7	7.2	6.4	6.5	4.6	
26.....	6.6		6.2	7.2	8.7	13.2	9.7	7.1	6.7	6.3	4.6	
27.....	6.5		6.3	7.0	8.6	12.6	9.7	7.0	7.0	6.1	4.6	
28.....	6.2		6.2	7.0	10.5	12.1	9.8	6.9	7.0	6.0	4.5	
29.....	6.0		6.2	6.9	10.9	11.7	9.5	6.9	7.2	5.9	4.5	
30.....	6.1		6.3	6.8	11.2	11.4	9.3	6.9	7.2	6.0	4.5	
31.....	6.3		6.4		11.7		9.1	6.9		5.9		
<b>Means.</b>	5.8	6.4	6.1	7.4	8.0	12.5	10.4	7.9	6.8	6.5	5.3	

## DESCRIPTION OF RIVER GAGES, ETC.

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## MISSOURI RIVER SYSTEM—MISSOURI RIVER, OMAHA, NEBR.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1902												
1.....	Frozen.	Frozen.	6.4	11.1	7.8	10.2	10.5	10.2	8.7	6.7	5.6	4.8
2.....			6.6	11.1	8.0	10.2	10.6	10.2	8.6	6.6	5.6	4.7
3.....			7.2	10.4	9.3	10.5	10.7	10.3	8.5	6.6	5.6	4.6
4.....			7.2	10.0	9.4	10.6	10.6	10.2	8.4	6.2	5.6	4.4
5.....			6.9	9.8	9.1	10.7	10.4	10.1	8.4	6.2	5.5	Frozen.
6.....			6.7	9.5	9.8	10.4	10.9	10.0	8.3	6.1	5.6	.....
7.....			6.3	9.4	10.0	10.0	11.1	10.0	8.2	6.2	5.6	.....
8.....			7.0	9.3	9.4	9.9	11.3	10.0	8.1	6.1	5.6	.....
9.....			6.9	9.2	9.1	11.8	11.6	9.8	7.9	6.0	5.7	.....
10.....			6.8	8.9	8.8	12.2	11.5	9.6	7.7	6.1	5.6	.....
11.....			7.0	8.9	8.8	12.1	11.3	9.5	7.5	6.0	5.7	.....
12.....			6.9	9.3	8.5	12.1	11.2	9.4	7.4	6.1	5.7	.....
13.....			6.7	8.9	8.2	12.3	11.3	9.2	7.3	6.2	5.6	.....
14.....			6.8	8.4	8.0	12.4	11.4	9.1	7.2	6.1	5.8	.....
15.....			6.9	8.4	7.9	11.9	11.3	9.1	7.1	6.1	5.9	.....
16.....			7.3	9.1	7.8	11.3	11.2	9.0	7.0	6.0	5.9	.....
17.....			7.2	10.2	7.8	11.1	11.4	8.9	6.9	6.0	6.0	.....
18.....			7.0	10.3	7.9	11.2	12.0	9.0	6.8	5.9	6.0	.....
19.....			6.8	9.6	7.9	11.4	12.0	8.9	6.7	5.9	6.0	.....
20.....			5.7	9.3	8.1	11.7	12.1	8.7	6.5	5.8	6.1	.....
21.....			5.2	8.8	8.0	11.5	11.8	8.7	6.5	5.8	6.1	.....
22.....			5.3	8.5	8.1	12.0	11.2	8.9	6.7	5.7	6.0	.....
23.....			5.6	8.1	8.2	12.0	10.7	8.8	7.1	5.7	5.9	.....
24.....			6.3	7.9	8.2	11.7	10.6	8.7	7.3	5.7	5.8	.....
25.....			8.9	7.7	8.3	11.7	10.5	8.7	7.5	5.7	5.6	.....
26.....			8.2	8.1	8.3	11.7	10.6	8.9	7.4	5.7	5.5	.....
27.....			8.5	7.7	8.4	11.6	10.5	9.0	7.5	5.6	5.4	.....
28.....			9.2	7.7	10.4	11.1	10.5	9.3	7.3	5.6	5.2	.....
29.....			9.1	7.7	10.9	10.8	10.4	10.0	7.0	5.6	4.9	.....
30.....			8.8	7.7	10.3	10.7	10.3	9.9	6.7	5.6	4.8	.....
31.....			9.3	.....	10.3	.....	10.3	9.2	.....	5.5	.....	.....
Means.....			7.1	9.0	8.7	11.3	11.0	9.4	7.5	6.0	5.7	.....
1903												
1.....	Frozen.	Frozen.	Frozen.	7.8	8.2	14.4	11.9	11.3	10.0	8.1	6.8	5.3
2.....				7.6	8.1	13.8	11.9	11.5	9.9	7.9	6.6	5.3
3.....				7.8	7.9	13.0	11.9	11.3	9.9	8.1	6.5	4.9
4.....				8.0	8.1	12.4	11.9	11.4	9.9	8.3	6.4	4.8
5.....				8.4	9.3	12.1	11.8	11.1	9.7	8.4	6.4	4.1
6.....				8.6	8.9	11.5	11.6	10.9	9.4	8.5	6.4	4.2
7.....				8.8	8.3	11.3	11.3	10.7	9.4	8.6	6.4	4.3
8.....				8.1	8.1	11.0	11.2	10.6	9.3	8.9	6.4	4.3
9.....				7.9	8.0	10.7	11.2	10.5	9.4	8.7	6.4	4.4
10.....				8.0	8.0	10.5	11.4	10.5	9.7	8.5	6.3	4.4
11.....				7.6	8.0	10.3	12.2	10.5	9.3	8.4	6.3	4.5
12.....				8.7	10.6	8.3	10.2	12.6	10.3	9.2	6.3	4.5
13.....			10.8	12.0	8.6	9.9	12.3	10.2	9.8	8.2	6.3	4.7
14.....			9.7	11.0	8.9	9.8	11.7	9.9	9.4	8.1	6.3	6.2
15.....			9.2	10.1	9.1	10.9	11.4	9.9	9.3	7.9	6.2	6.5
16.....			8.7	9.3	8.9	11.5	11.2	10.2	9.3	7.8	6.2	6.6
17.....			8.5	8.9	9.0	11.6	11.2	10.2	9.0	7.9	6.1	6.7
18.....			8.6	8.7	9.1	11.6	11.3	9.8	8.9	7.8	5.9	6.8
19.....			8.6	8.5	9.1	11.5	11.1	9.8	8.9	7.8	4.4	6.8
20.....			8.7	8.4	9.1	11.5	11.4	10.7	9.3	8.0	4.6	6.9
21.....			8.6	8.2	9.2	11.3	11.3	10.6	9.3	8.1	4.9	7.1
22.....			8.5	8.1	9.2	11.3	11.1	10.5	9.5	8.0	5.3	7.2
23.....			8.4	8.1	9.3	11.3	10.7	10.4	9.6	7.9	5.5	7.1
24.....			8.3	8.2	9.5	11.3	10.8	10.0	9.3	7.7	5.4	7.0
25.....			8.3	8.2	9.9	11.3	10.6	9.5	9.0	7.6	4.8	7.0
26.....			8.3	8.1	10.2	11.7	10.6	9.2	8.9	7.5	4.8	Frozen.
27.....			8.2	8.1	10.7	11.9	10.6	10.1	8.8	7.5	5.1	.....
28.....			8.0	8.0	10.5	12.0	10.7	10.0	8.8	7.4	4.9	.....
29.....			7.9	7.9	11.4	11.5	10.3	10.1	8.7	7.3	5.0	.....
30.....			7.9	8.2	12.3	12.1	10.3	10.1	8.4	7.2	5.1	.....
31.....			7.9	.....	13.1	.....	10.9	10.0	.....	7.0	.....	.....
Means.....			8.4	8.6	9.1	11.5	11.3	10.4	9.3	8.0	5.8	5.7

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSOURI RIVER SYSTEM—MISSOURI RIVER, OMAHA, NEBR.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.	Frozen.	Frozen.	Frozen.	6.8	10.3	10.1	12.5	8.6	6.6			
2.				7.2	10.1	12.4	12.4	8.6	6.6			
3.				8.4	10.0	12.7	12.2	8.5	6.7			
4.				8.6	9.8	12.6	12.1	8.1	6.7			
5.				8.4	9.6	12.8	11.9	8.2	6.9			
6.				8.6	9.8	12.7	11.7	8.1	6.9			
7.				8.7	9.8	12.3	11.2	8.1	6.8			
8.				8.5	10.0	12.0	11.0	8.1	6.7			
9.				8.5	10.0	11.9	10.8	8.1	6.7			
10.				10.7	10.0	12.8	10.7	8.2	6.9			
11.				10.6	9.9	13.6	10.7	8.2	7.2			
12.				10.9	9.9	13.8	10.4	8.0	7.3			
13.				14.2	9.8	13.8	10.4	8.0	6.9			
14.				15.9	9.7	13.8	10.7	7.8	6.7			
15.				16.5	9.6	13.5	10.8	7.7	6.5			
16.				15.6	9.7	13.2	10.7	7.6	6.3			
17.				14.8	9.7	12.8	10.6	7.6	6.2			
18.				14.3	9.8	12.7	10.4	7.5	5.9			
19.			7.5	13.7	10.1	12.6	10.2	7.8	5.9			
20.			7.9	12.9	10.3	12.4	10.0	7.5	5.8			
21.			8.0	12.4	10.2	12.1	9.9	7.5	5.8			
22.			8.6	12.3	10.0	12.2	9.8	7.6	5.7			
23.			8.8	12.2	9.8	12.2	9.7	7.4	5.8			
24.			8.1	11.4	9.7	12.1	9.6	7.4	5.9			
25.			7.8	11.1	9.7	11.7	9.5	7.3	5.8			
26.			7.8	10.8	9.9	11.7	9.5	7.1	5.7			
27.			8.8	10.8	9.8	12.0	9.3	7.0	5.7			
28.			8.0	10.7	9.7	12.4	9.2	6.9	5.7			
29.			7.1	10.6	9.7	12.6	9.2	6.8	5.7			
30.			6.4	10.3	9.8	12.5	9.0	6.7	5.7			
31.			6.9		9.8		8.9	6.6				
Means.				11.2	9.9	12.5	10.5	7.7	6.3			

## MISSOURI RIVER SYSTEM—MISSOURI RIVER, PLATTSMOUTH, NEBR.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.			5.1	6.2	5.9	7.4	6.6					
2.			4.9	6.3	5.9	7.5	6.3					
3.			5.0	5.8	5.9	7.5	6.3					
4.			5.0	5.8	5.7	7.3	6.2					
5.			5.2	5.9	5.7	7.4	6.2					
6.			5.1	5.8	5.8	7.3	6.4					
7.			5.4	5.8	6.8	7.3	6.6					
8.			5.5	6.2	7.7	7.7	6.7					
9.			5.7	7.6	7.4	8.8	6.8					
10.			5.9	7.8	7.3	8.6	6.9					
11.			7.9	7.3	7.1	8.3	6.8					
12.			5.5	6.6	7.6	7.9	6.4					
13.			5.9	6.2	7.3	7.9	6.0					
14.			4.8	5.9	7.2	7.9	5.8					
15.			4.7	5.7	7.0	7.9	5.7					
16.			4.7	5.5	6.9	8.1	6.0					
17.			3.9	5.4	6.8	8.4	7.0					
18.			3.4	5.5	6.8	9.1	6.7					
19.			4.4	5.7	6.7	8.6	6.6					
20.			4.0	5.7	6.7	8.2	6.5					
21.			3.8	5.5	6.7	7.9	6.1					
22.			4.0	5.3	6.9	8.1	5.9					
23.			3.9	5.2	7.4	7.9	5.7					
24.			3.9	5.3	8.2	7.6	5.8					
25.			4.0	5.2	8.1	7.7	5.7					
26.			5.8	5.2	7.9	7.4	5.5					
27.			5.9	5.6	8.1	7.2	5.6					
28.			5.5	5.6	7.9	7.1	5.5					
29.			5.3	5.5	7.7	6.9	5.2					
30.			5.4	5.9	7.5	6.7	5.1					
31.			5.3		7.4		4.9					
Means.			5.0	5.9	7.0	7.8	6.1					



## MISSOURI RIVER SYSTEM—MISSOURI RIVER, PLATTSMOUTH, NEBR.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1			4.5	4.1	3.7	7.7	6.7					
2			4.7	4.1	3.6	7.7	6.9					
3			4.6	4.1	3.5	7.9	6.7					
4			4.4	4.0	3.4	7.9	6.9					
5			4.0	4.2	3.6	7.8	6.8					
6			3.6	5.0	3.6	7.7	7.4					
7			3.5	5.5	3.8	7.7	6.7					
8			4.3	7.0	3.8	7.9	6.5					
9			3.9	6.6	3.7	8.5	6.3					
10			3.9	5.8	4.3	8.7	6.1					
11			3.6	5.5	4.1	8.8	6.1					
12			3.5	5.1	4.1	8.7	6.1					
13			3.4	5.1	4.0	8.4	6.1					
14			4.1	5.0	3.9	8.4	6.5					
15			4.0	5.0	3.9	8.4	6.7					
16			3.7	5.1	3.9	8.3	6.1					
17			3.6	5.3	3.9	8.5	5.7					
18			3.5	5.2	3.9	9.1	5.3					
19			3.6	5.2	5.4	9.5	5.3					
20			3.3	5.1	5.4	9.4	5.0					
21			3.2	4.8	5.2	9.3	4.9					
22			3.2	4.6	5.1	9.5	4.8					
23			3.5	4.5	5.0	9.6	4.7					
24			4.0	4.4	5.0	9.3	4.9					
25			4.1	4.3	5.1	9.1	4.9					
26			4.1	4.3	5.1	9.0	5.0					
27			4.1	4.0	5.1	8.3	4.9					
28			4.2	4.0	6.5	7.7	5.0					
29			4.1	3.7	6.6	7.3	4.9					
30			4.0	3.7	7.0	6.8	4.6					
31			4.0		7.3		4.4					
<b>Means</b>			<b>3.9</b>	<b>4.8</b>	<b>4.6</b>	<b>8.4</b>	<b>5.8</b>					
<b>1902</b>												
1			7.2	6.6	3.7	6.7	6.5					
2			6.6	6.9	3.8	6.8	6.8					
3			6.5	6.4	4.9	7.0	7.2					
4			6.9	6.2	5.1	7.1	7.7					
5			7.7	6.1	5.1	7.1	7.0					
6			6.3	5.9	5.2	7.0	7.8					
7			5.6	5.9	6.2	6.6	8.2					
8			5.0	5.9	5.9	6.7	8.5					
9			5.0	5.9	5.7	8.2	8.5					
10			4.4	5.7	5.3	8.5	8.4					
11			4.2	5.6	5.3	8.3	8.5					
12			4.0	6.0	5.1	8.2	8.5					
13			3.7	5.8	4.7	8.3	8.2					
14			3.7	5.3	4.5	8.5	8.0					
15			3.8	5.3	4.4	8.0	7.9					
16			3.9	5.8	4.3	7.5	7.4					
17			3.8	6.6	4.4	7.3	7.6					
18			3.6	6.7	4.3	7.6	8.7					
19			4.7	6.2	4.6	7.5	8.3					
20			3.0	5.8	5.0	7.9	8.4					
21			2.9	5.4	5.4	7.6	8.5					
22			3.1	5.0	5.0	8.1	7.7					
23			3.1	4.5	5.1	8.2	7.3					
24			3.7	4.3	4.9	7.8	7.8					
25			5.5	3.9	4.9	7.6	6.4					
26			5.3	4.1	5.0	7.5	6.2					
27			5.3	4.1	4.9	7.4	6.1					
28			5.7	3.9	6.9	6.9	6.1					
29			5.8	3.9	7.1	6.8	5.9					
30			6.0	3.9	6.8	6.9	5.7					
31			6.1		6.7		5.8					
<b>Means</b>			<b>4.9</b>	<b>5.5</b>	<b>5.2</b>	<b>7.1</b>	<b>7.5</b>					

## MISSOURI RIVER SYSTEM—MISSOURI RIVER, PLATTSMOUTH, NEBR.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....			5.4	4.6	5.0	11.2	8.2					
2.....			5.7	4.4	5.0	10.7	8.0					
3.....			5.9	4.4	5.1	10.2	8.0					
4.....			5.9	4.3	5.0	9.6	8.1					
5.....			5.9	5.4	5.1	9.1	8.1					
6.....			6.0	5.1	5.2	8.5	8.6					
7.....			6.0	4.6	5.0	7.8	8.1					
8.....			5.4	4.1	4.6	7.5	7.9					
9.....			5.4	4.1	4.4	7.1	7.7					
10.....			8.5	4.1	4.4	6.8	7.7					
11.....			6.1	3.9	4.9	6.5	8.3					
12.....			6.3	6.1	5.4	6.3	8.8					
13.....			7.6	7.9	5.9	6.0	8.6					
14.....			7.4	6.8	5.9	5.8	8.1					
15.....			7.1	5.9	6.0	6.5	7.7					
16.....			6.3	5.5	6.0	7.1	7.4					
17.....			6.1	5.4	5.8	7.4	7.4					
18.....			6.1	5.3	5.6	7.2	7.6					
19.....			6.2	5.2	5.5	7.2	7.7					
20.....			6.6	5.3	5.8	7.2	7.8					
21.....			6.5	5.1	6.0	7.1	7.8					
22.....			6.2	5.0	6.0	7.3	7.3					
23.....			5.7	5.0	6.1	7.3	7.0					
24.....			5.5	5.0	6.2	7.4	6.7					
25.....			5.4	4.8	6.4	7.4	6.4					
26.....			5.3	4.9	7.2	7.8	6.2					
27.....			5.1	4.5	7.7	8.1	6.1					
28.....			4.8	4.4	7.7	8.3	6.1					
29.....			4.7	4.7	8.3	8.4	6.0					
30.....			4.7	4.4	8.9	8.3	5.9					
31.....			4.5		11.0		6.1					
<b>Means.</b>			5.9	5.0	6.0	7.8	7.5					
<b>1904</b>												
1.....			4.3	3.2	5.6	6.1	8.0					
2.....			4.6	3.2	5.4	7.5	7.9					
3.....			4.7	4.1	5.3	7.9	7.8					
4.....			5.4	4.3	5.1	8.0	7.7					
5.....			5.7	4.2	5.1	8.4	7.8					
6.....			5.4	4.2	5.3	8.5	7.6					
7.....			5.7	4.5	5.4	8.2	7.3					
8.....			5.3	4.2	5.6	8.0	7.1					
9.....			5.2	4.3	5.5	7.9	7.5					
10.....			4.2	5.5	5.7	8.4	7.3					
11.....			4.3	5.4	5.8	9.1	7.0					
12.....			3.6	5.5	5.7	9.4	6.9					
13.....			3.2	7.9	5.6	9.4	7.0					
14.....			3.0	9.3	5.6	9.4	7.1					
15.....			2.9	9.7	5.6	9.3	7.1					
16.....			2.9	9.4	5.7	9.1	6.9					
17.....			2.9	9.3	6.0	8.8	6.7					
18.....			3.0	9.0	6.1	8.6	6.6					
19.....			3.2	8.4	6.2	8.5	6.3					
20.....			3.3	8.0	6.5	8.2	6.7					
21.....			3.4	7.7	6.3	8.0	6.4					
22.....			3.5	7.3	6.1	7.9	6.2					
23.....			4.8	7.2	5.9	7.8	6.2					
24.....			4.5	6.8	5.8	7.7	6.1					
25.....			4.0	6.4	5.7	7.5	6.1					
26.....			3.9	6.1	6.2	7.4	5.8					
27.....			4.4	6.2	6.4	7.6	6.0					
28.....			3.9	6.1	6.2	8.0	5.5					
29.....			3.5	5.9	6.2	8.0	5.4					
30.....			3.4	5.8	6.1	8.1	5.3					
31.....			3.3		6.0		5.2					
<b>Means.</b>			4.0	6.3	5.8	8.2	6.7					

## DESCRIPTION OF RIVER GAGES, ETC.

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## MISSOURI RIVER SYSTEM—MISSOURI RIVER, ST. JOSEPH, MO.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	-1.2	-2.3	3.0	3.3	5.0	5.7	5.6	4.1	3.5	2.0	3.0	-0.6
2.....	-1.2	-2.7	2.7	4.2	4.8	5.7	5.3	3.8	3.1	2.8	3.1	-0.6
3.....	-0.9	-2.1	2.3	5.0	4.5	5.7	5.2	3.7	2.7	2.9	2.9	-0.4
4.....	-0.8	-2.2	2.1	4.3	4.5	5.7	5.0	3.5	2.5	2.7	2.6	-0.3
5.....	-0.7	-2.3	2.2	3.7	4.3	5.6	4.9	3.4	2.3	2.0	2.4	-0.3
6.....	-0.8	-1.5	2.8	3.7	4.2	5.6	4.9	3.1	2.2	1.8	2.3	-0.3
7.....	-0.4	-1.7	3.1	3.9	4.5	5.5	4.9	3.0	1.9	1.7	2.2	-0.2
8.....	0.0	-1.1	3.4	3.8	5.1	5.7	5.3	2.8	1.8	1.7	2.2	-0.2
9.....	0.4	-0.4	4.4	3.9	6.9	5.7	5.5	2.6	1.7	1.7	1.6	-0.2
10.....	2.4	0.1	4.3	6.2	6.7	7.3	5.6	2.5	1.6	1.8	1.5	-0.1
11.....	2.0	0.2	5.1	6.9	6.0	7.5	5.7	2.3	1.5	1.7	1.4	-0.1
12.....	1.5	0.1	5.0	5.9	5.7	7.0	5.9	2.2	1.3	1.6	1.3	-0.1
13.....	1.3	0.7	4.5	5.0	6.0	6.5	5.4	2.7	1.4	1.5	1.2	0.0
14.....	1.6	1.1	4.5	4.3	5.8	6.5	4.8	4.7	1.4	1.4	1.0	0.5
15.....	2.5	1.8	3.9	3.8	5.6	6.5	4.5	4.1	2.7	1.1	1.0	0.2
16.....	2.0	1.8	3.5	3.7	5.6	6.6	4.6	3.6	3.1	1.0	0.8	-0.1
17.....	0.9	2.3	3.7	3.7	5.3	7.3	5.5	3.3	2.6	0.8	0.8	0.4
18.....	1.1	2.5	3.0	3.8	5.0	7.8	6.1	3.8	2.4	0.7	0.9	-0.8
19.....	1.3	2.3	1.7	3.8	5.0	8.2	6.1	3.9	2.6	0.6	0.8	-0.9
20.....	1.3	2.1	1.7	4.2	4.8	8.0	6.4	3.8	2.3	0.7	0.8	-0.8
21.....	1.3	2.0	2.0	4.5	4.6	7.1	6.1	3.8	2.2	0.5	0.9	-0.7
22.....	1.2	2.3	1.6	4.3	4.6	6.8	5.6	3.5	2.1	0.7	0.8	-0.6
23.....	1.4	2.1	1.2	4.0	4.7	6.6	5.2	3.8	2.2	1.1	0.6	-0.3
24.....	1.5	2.6	1.4	3.8	5.1	6.3	5.0	4.1	2.7	1.3	0.6	-0.2
25.....	1.5	3.1	1.5	3.9	6.7	6.0	4.9	3.6	2.7	1.4	0.3	-0.1
26.....	1.6	3.0	1.6	4.0	6.6	6.1	4.9	3.6	2.8	1.3	-0.2	-0.2
27.....	1.5	2.8	3.3	4.7	6.3	5.8	4.6	3.7	2.9	1.3	-0.3	-0.6
28.....	-0.3	3.1	4.4	5.1	6.4	6.2	4.5	4.0	2.6	1.5	-0.4	-1.2
29.....	-1.4		3.9	5.1	6.5	6.1	4.5	4.0	2.4	1.6	-0.6	-1.8
30.....	-2.2		3.6	5.0	6.1	6.0	4.5	4.3	2.2	1.8	-0.7	-1.5
31.....	-2.3		3.5		5.8		4.3	3.9		2.4		-1.6
<b>Means.</b>	0.5	0.7	3.1	4.4	5.4	6.4	5.2	3.5	2.3	1.5	1.2	-0.4
<b>1901</b>												
1.....	-3.0	0.3	2.2	2.6	2.1	6.3	6.3	3.9	1.6	2.8	1.8	0.6
2.....	-3.1	1.2	1.2	2.5	2.0	6.7	6.1	3.7	1.6	2.9	1.8	0.5
3.....	-2.6	1.3	1.7	2.6	1.9	6.9	6.3	3.5	1.5	2.7	2.5	0.5
4.....	-2.7	0.1	1.9	2.5	1.9	6.9	6.2	3.5	1.4	2.5	2.6	0.5
5.....	-2.7	0.1	3.5	2.6	1.9	6.8	7.5	3.5	1.3	2.4	2.4	0.5
6.....	-2.4	0.1	3.3	3.6	2.7	6.9	7.7	3.6	1.3	2.3	2.3	0.5
7.....	-1.7	0.1	2.2	3.9	3.1	6.7	7.0	3.6	1.1	2.3	2.2	0.4
8.....	-1.4	0.8	1.2	4.6	2.9	6.6	6.3	3.5	1.0	2.1	2.2	0.5
9.....	-1.1	1.3	2.0	6.2	2.7	6.7	6.0	3.4	1.1	2.1	2.1	0.5
10.....	-0.7	0.7	2.7	6.1	2.6	7.5	5.7	3.3	1.1	2.1	2.0	0.5
11.....	-0.2	0.4	2.3	5.0	2.5	8.1	5.7	3.1	1.2	2.0	1.9	0.5
12.....	0.1	0.5	2.0	4.2	3.0	8.2	5.7	3.1	1.9	2.5	1.8	0.3
13.....	0.2	0.6	2.3	4.1	2.9	8.1	5.6	3.0	2.2	2.8	1.7	0.3
14.....	0.2	0.7	2.2	4.0	2.8	7.6	5.6	3.0	2.7	2.8	1.6	0.0
15.....	0.2	0.6	3.2	3.6	2.5	7.5	5.7	3.1	4.2	2.5	1.5	-0.7
16.....	0.1	0.9	3.6	3.4	2.4	7.5	6.5	3.1	4.4	2.5	1.5	-0.7
17.....	0.3	1.0	3.0	3.5	3.1	7.4	5.8	3.1	3.7	2.3	1.4	-1.1
18.....	0.4	1.0	2.7	3.4	2.4	7.6	5.2	3.1	3.0	2.2	1.3	-1.2
19.....	0.5	3.7	2.7	3.6	2.3	8.3	5.0	3.1	2.6	2.1	1.3	-1.0
20.....	0.6	1.5	3.0	3.4	3.6	8.9	4.6	2.9	2.4	2.1	1.2	-1.0
21.....	0.5	1.3	2.6	3.3	4.5	8.9	4.4	2.5	2.2	2.1	1.1	-1.0
22.....	0.4	1.5	2.2	3.1	4.2	9.0	4.2	2.3	2.2	2.3	1.0	-0.6
23.....	0.4	1.5	2.1	2.9	3.9	9.3	4.1	2.1	2.1	2.4	1.0	-0.6
24.....	0.6	3.2	2.1	2.6	3.9	9.6	4.0	2.0	2.1	2.4	0.9	-0.4
25.....	0.7	5.4	3.0	2.5	3.8	9.2	4.1	2.0	2.0	2.3	0.8	-0.3
26.....	0.5	4.4	3.5	2.4	3.7	8.7	4.2	1.9	2.0	2.2	0.7	-0.3
27.....	0.6	3.4	3.2	2.4	3.7	8.5	4.4	1.9		2.2	0.7	-0.5
28.....	0.6	3.0	3.0	2.4	3.7	8.0	4.4	1.9		1.8	0.6	-0.4
29.....	0.7		2.8	2.3	4.9	7.2	4.2	1.8		1.6	0.6	-0.6
30.....	0.7		2.9	2.3	5.9	6.8	4.3	1.7		1.5	0.6	-0.6
31.....	0.7		2.8		6.0		4.2	1.6		1.5		-0.6
<b>Means.</b>	-0.4	1.4	2.6	3.4	3.2	7.7	5.4	2.8	2.1	2.3	1.6	-0.2

## MISSOURI RIVER SYSTEM—MISSOURI RIVER, ST. JOSEPH, MO.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	-0.6	2.6	1.7	4.4	2.5	6.0	6.9	5.3	5.8	2.9	1.8	1.1
2.....	-0.8	3.4	2.0	5.8	2.6	5.6	6.7	5.4	5.1	2.7	1.8	0.9
3.....	-0.8	3.5	2.3	6.3	2.5	5.7	6.8	5.1	4.8	2.7	2.0	0.8
4.....	-0.8	3.4	4.0	5.5	2.6	6.1	7.3	5.0	4.5	2.9	2.7	0.9
5.....	-0.6	3.2	3.5	4.9	4.2	6.3	7.3	5.0	4.2	3.2	3.0	1.1
6.....	-0.7	3.1	3.2	4.8	4.5	6.5	7.2	4.8	4.0	3.5	2.9	0.7
7.....	-0.4	3.2	3.9	4.6	4.1	7.2	7.3	4.9	3.6	3.4	2.6	0.1
8.....	-0.2	3.3	3.2	4.5	5.5	6.9	8.3	4.6	3.3	3.3	2.3	-0.7
9.....	-0.1	3.3	3.1	4.4	4.9	6.8	8.7	4.5	3.1	2.6	2.2	-1.1
10.....	-0.1	3.2	3.9	4.3	4.2	8.2	9.2	4.3	2.6	2.2	1.9	-1.4
11.....	0.1	3.6	3.8	4.2	4.0	8.6	9.3	3.8	2.4	1.9	1.7	-1.6
12.....	0.2	3.6	3.5	4.0	3.9	8.2	9.3	3.4	2.3	2.1	1.6	-1.9
13.....	0.4	3.6	3.3	4.4	3.7	8.1	9.4	3.2	2.1	2.7	1.6	-1.9
14.....	0.3	3.6	3.1	4.6	3.4	8.1	9.3	3.1	1.9	2.9	1.8	-2.0
15.....	0.6	3.5	3.0	3.8	3.0	8.2	8.9	3.2	1.8	3.7	1.9	-1.9
16.....	0.9	3.5	3.0	3.3	2.7	7.9	8.5	3.2	1.7	4.2	2.5	-2.1
17.....	0.8	3.3	3.0	3.6	2.5	7.2	8.0	3.2	1.6	4.0	2.8	-2.0
18.....	1.0	3.3	2.8	5.4	2.6	6.8	7.9	3.2	1.5	3.5	2.9	-1.6
19.....	1.0	3.3	2.3	5.9	2.7	6.8	7.9	3.2	1.4	3.2	2.8	-1.5
20.....	1.1	3.0	1.5	5.0	2.7	7.0	9.3	3.3	1.3	3.1	2.8	-0.4
21.....	1.0	2.9	2.2	4.4	3.3	7.4	9.1	3.2	1.2	2.9	2.7	-0.1
22.....	0.6	2.8	1.2	4.0	4.1	7.1	9.2	3.1	1.2	2.6	2.6	0.9
23.....	0.6	2.7	1.0	3.7	4.5	7.3	8.4	3.5	1.4	2.4	2.3	1.0
24.....	0.7	2.7	1.1	3.1	4.5	7.7	7.4	3.8	2.4	2.3	2.1	1.1
25.....	0.6	2.6	1.2	2.8	4.8	7.6	7.0	3.9	3.1	2.3	2.0	1.1
26.....	0.5	2.3	2.8	3.0	4.6	7.2	6.6	3.8	3.0	2.2	2.0	0.9
27.....	0.2	1.6	4.3	2.5	4.4	7.1	6.5	4.0	3.3	2.1	1.9	0.2
28.....	2.1	1.8	3.8	2.9	4.3	7.3	6.4	4.1	3.3	2.0	1.6	0.1
29.....	2.0	.....	4.4	2.9	5.8	6.9	6.1	4.3	3.0	1.9	1.5	0.6
30.....	1.7	.....	4.8	2.6	6.8	6.7	5.7	4.7	3.0	1.9	1.4	1.3
31.....	2.0	.....	4.6	.....	6.4	.....	5.4	6.0	.....	1.8	.....	1.2
<b>Means.</b>	<b>0.4</b>	<b>3.1</b>	<b>3.0</b>	<b>4.2</b>	<b>3.9</b>	<b>7.2</b>	<b>7.8</b>	<b>4.1</b>	<b>2.8</b>	<b>2.7</b>	<b>2.2</b>	<b>-0.2</b>
<b>1903</b>												
1.....	1.2	0.7	2.8	3.9	3.7	14.0	10.0	6.6	10.3	3.5	2.5	0.5
2.....	1.0	1.1	2.9	3.8	3.8	15.0	9.9	8.3	9.7	3.4	2.4	0.6
3.....	1.4	1.2	3.8	3.9	3.9	14.9	9.6	8.7	9.1	3.4	2.7	0.4
4.....	1.2	0.9	3.5	3.5	3.9	14.0	9.6	9.1	8.8	3.4	2.9	0.4
5.....	1.0	0.8	3.9	3.5	3.9	12.8	9.7	9.5	8.6	3.5	3.0	0.2
6.....	0.9	0.9	3.7	4.1	3.7	12.1	9.8	8.7	8.0	3.6	3.5	-1.8
7.....	1.0	1.1	4.0	4.6	3.7	11.1	10.2	8.1	7.1	3.7	3.5	-1.8
8.....	0.6	1.2	3.8	4.1	3.7	10.1	9.6	7.7	6.7	3.8	3.1	-1.9
9.....	0.2	1.3	4.3	3.6	3.6	9.5	9.4	7.5	6.2	3.7	2.9	-1.9
10.....	0.3	1.2	4.6	3.3	3.4	9.0	9.2	7.1	6.7	4.0	2.7	-1.9
11.....	0.7	1.4	6.6	3.2	3.4	8.6	9.1	7.0	6.4	3.9	2.3	-1.8
12.....	0.7	1.6	5.4	3.3	3.4	8.0	9.5	6.9	5.7	3.6	2.4	-1.8
13.....	1.0	1.7	5.4	3.4	4.4	7.6	10.4	7.3	5.8	3.6	2.4	-3.0
14.....	1.4	1.4	7.4	7.3	5.5	7.1	10.4	7.3	6.6	3.7	2.2	-3.1
15.....	1.1	1.3	7.2	6.4	5.6	6.8	9.8	7.1	7.5	3.8	2.0	-3.0
16.....	0.8	1.2	6.5	5.4	5.6	6.9	9.3	7.7	7.7	3.7	2.1	-3.2
17.....	0.7	1.0	5.8	4.6	5.6	8.5	8.8	8.3	7.2	3.6	2.2	-3.1
18.....	0.8	1.4	5.5	4.1	5.5	8.8	8.6	8.1	6.7	3.3	2.3	-2.4
19.....	0.9	1.6	5.6	3.9	5.3	8.7	9.0	7.7	6.4	3.3	2.4	-2.1
20.....	0.8	1.5	5.9	3.9	5.0	8.7	9.2	7.0	6.2	3.2	2.2	-1.4
21.....	1.0	1.3	6.1	3.9	5.0	8.7	9.2	7.0	5.8	3.0	1.7	-1.2
22.....	1.0	1.2	6.2	3.6	5.7	8.7	9.5	7.1	5.6	2.9	1.3	-1.0
23.....	1.0	1.2	6.0	3.4	6.5	8.7	8.9	6.5	5.8	2.9	-0.3	-0.7
24.....	1.0	1.5	5.5	3.3	6.6	9.0	8.5	6.3	5.7	2.6	-0.2	-0.3
25.....	0.6	1.4	5.2	3.4	7.1	8.9	8.0	6.1	5.3	2.2	0.1	-0.1
26.....	0.3	1.6	5.0	3.4	7.6	8.9	7.6	5.7	4.9	1.8	0.2	-0.4
27.....	0.4	1.9	4.9	3.3	9.0	9.3	7.3	5.7	4.6	1.7	0.1	-0.4
28.....	0.6	2.2	4.7	3.3	9.8	9.7	7.0	6.4	4.3	1.6	0.1	-0.1
29.....	0.7	.....	4.4	3.3	10.5	10.0	6.8	9.3	4.0	1.7	0.3	-0.2
30.....	1.0	.....	4.1	3.3	11.1	10.0	6.6	9.7	3.7	1.7	0.4	-0.1
31.....	0.8	.....	4.0	.....	12.8	.....	6.6	10.3	.....	2.1	.....	-0.1
<b>Means.</b>	<b>0.8</b>	<b>1.3</b>	<b>5.0</b>	<b>3.9</b>	<b>5.8</b>	<b>9.8</b>	<b>8.9</b>	<b>7.6</b>	<b>6.6</b>	<b>3.1</b>	<b>1.8</b>	<b>-1.2</b>

## MISSOURI RIVER SYSTEM—MISSOURI RIVER, ST. JOSEPH, MO.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	0.1	4.2	2.0	2.6	7.4	6.3	8.7	5.3	2.6	1.2	0.8	0.2
2.....	0.2	4.1	2.0	2.4	6.4	6.3	8.5	5.0	2.2	1.6	0.7	0.2
3.....	0.3	4.0	2.1	2.0	5.9	7.6	8.4	4.8	2.1	1.4	0.5	0.2
4.....	0.2	4.0	0.9	1.9	5.8	9.1	8.7	4.6	2.0	1.4	0.4	0.0
5.....	0.1	4.0	1.0	3.6	5.5	9.2	8.6	4.5	2.0	1.2	0.4	-0.1
6.....	0.2	4.1	1.2	3.6	5.4	9.3	8.6	4.3	2.0	1.0	0.3	-0.5
7.....	0.4	4.3	2.6	3.5	5.7	9.4	8.7	4.1	2.0	0.8	0.3	-1.0
8.....	0.7	4.5	1.9	3.6	5.5	9.2	8.4	4.1	2.1	0.6	0.3	-0.8
9.....	0.9	4.3	2.0	4.6	5.7	8.6	8.0	4.0	2.0	0.5	0.3	-0.6
10.....	1.1	4.3	2.1	4.7	5.8	8.4	8.2	4.3	1.8	0.4	0.3	-0.7
11.....	1.0	4.1	2.9	5.6	5.8	8.9	8.0	4.5	1.8	0.4	0.3	-0.9
12.....	0.9	4.0	3.3	6.2	5.7	9.6	7.5	4.4	1.9	0.4	0.3	-0.9
13.....	0.7	3.8	3.5	5.9	6.0	9.9	7.3	4.3	2.2	0.5	0.4	-1.1
14.....	0.6	3.7	3.2	8.4	6.0	10.1	7.7	4.1	3.2	0.5	0.4	-1.6
15.....	0.5	3.5	2.5	9.9	5.7	10.0	7.6	3.9	2.9	0.5	0.3	-1.6
16.....	0.4	3.4	2.0	10.2	5.6	9.9	7.5	3.7	2.3	0.6	0.3	-1.6
17.....	0.4	3.4	1.8	9.9	5.6	9.6	7.3	3.6	1.8	0.6	0.3	-1.6
18.....	0.3	3.3	1.8	9.4	5.7	9.7	7.0	3.3	1.6	0.5	0.4	-1.6
19.....	0.4	3.3	1.8	8.7	5.8	9.5	6.8	3.1	1.4	0.6	0.3	-2.3
20.....	0.7	3.2	2.0	8.5	5.8	9.2	6.9	3.5	1.2	0.8	0.3	-2.3
21.....	1.0	3.1	2.1	7.9	6.0	8.8	7.5	3.5	1.1	0.9	0.3	-1.6
22.....	1.1	3.0	2.6	7.7	6.1	8.6	7.3	3.5	0.9	1.0	0.3	-1.6
23.....	1.0	2.7	5.4	7.7	5.8	8.3	7.0	3.5	0.8	1.9	0.3	-0.1
24.....	0.8	2.5	5.4	7.9	5.6	8.4	6.7	3.4	0.8	2.2	0.3	-1.9
25.....	1.0	2.3	4.6	8.1	5.5	8.5	6.7	3.1	0.8	1.9	0.3	-2.4
26.....	2.0	2.2	4.5	8.2	5.7	8.2	6.6	2.9	1.1	1.7	0.3	-2.6
27.....	4.7	2.1	3.7	7.9	6.1	8.2	6.2	2.6	1.1	1.5	0.2	-4.0
28.....	4.6	2.1	3.8	8.0	6.8	8.0	6.1	2.3	1.0	1.4	0.2	-4.2
29.....	4.2	2.0	3.9	7.7	6.8	8.5	5.7	2.3	1.0	1.2	0.2	-4.5
30.....	4.1	-----	3.5	7.6	6.4	8.7	5.5	3.3	0.9	1.1	0.2	-4.3
31.....	4.3	-----	2.7	-----	6.4	-----	5.4	2.9	-----	1.0	-----	-4.3
Means.	1.3	3.4	2.7	6.5	5.9	8.8	7.4	3.7	1.7	1.0	0.3	-1.6

## MISSOURI RIVER SYSTEM—MISSOURI RIVER, KANSAS CITY, MO.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	5.0	4.4	8.3	9.4	12.2	14.4	14.9	10.4	10.6	10.1	8.3	5.4
2.....	4.8	3.7	8.5	9.1	12.2	14.1	14.1	10.0	9.4	9.4	9.4	5.2
3.....	4.7	4.1	8.1	10.8	12.0	14.0	13.9	9.5	9.2	10.2	8.8	5.1
4.....	4.4	4.1	8.0	11.1	11.6	13.8	12.9	9.3	8.8	10.0	10.5	5.3
5.....	4.2	4.4	8.2	10.3	11.5	13.9	12.5	9.0	8.4	9.7	10.3	5.4
6.....	4.6	4.8	8.1	9.7	11.3	13.7	12.0	8.7	8.1	9.1	9.9	5.5
7.....	4.9	4.9	9.4	9.7	11.0	13.7	11.8	8.3	7.9	8.4	9.6	5.5
8.....	5.1	5.2	11.0	10.0	11.7	13.6	12.2	8.0	7.6	8.0	9.3	5.4
9.....	5.3	4.5	11.0	10.0	14.0	13.4	12.7	7.7	7.4	7.9	9.1	5.6
10.....	5.5	4.2	12.1	12.0	14.5	14.5	12.8	7.5	7.3	7.7	9.0	5.5
11.....	6.1	4.8	13.7	14.4	14.3	16.3	13.3	7.2	7.0	7.5	8.5	5.7
12.....	6.4	4.9	13.2	14.0	13.8	15.9	14.0	7.0	6.8	7.3	8.3	5.7
13.....	6.2	6.7	13.6	12.6	13.7	15.7	13.5	7.0	6.9	7.6	7.8	5.7
14.....	5.5	6.1	11.9	11.5	14.1	14.4	12.4	9.3	6.8	7.5	7.6	5.6
15.....	6.5	6.8	12.0	10.7	13.7	14.3	11.8	10.5	6.7	7.3	7.3	5.5
16.....	5.6	6.8	10.8	10.6	13.8	14.4	11.3	10.1	8.3	7.2	7.3	5.4
17.....	5.7	7.4	10.0	10.4	13.7	14.6	12.9	9.6	8.9	7.0	7.2	5.4
18.....	5.3	7.4	9.1	10.1	13.9	16.6	13.1	9.0	9.0	6.7	7.0	5.3
19.....	5.3	7.6	8.4	10.0	13.6	17.2	15.0	9.3	9.2	6.5	7.1	5.2
20.....	5.6	8.0	7.9	10.2	13.8	17.8	15.4	9.5	9.2	6.4	7.1	5.2
21.....	5.8	8.2	7.5	10.7	13.6	16.9	15.1	9.5	9.0	6.1	7.0	4.9
22.....	5.8	8.0	7.6	10.9	13.0	16.4	14.4	9.4	8.5	6.3	7.0	4.9
23.....	5.7	8.0	7.2	10.9	12.7	15.9	13.7	9.3	8.3	6.5	6.9	5.1
24.....	5.7	7.8	7.5	10.9	12.9	15.4	13.2	9.8	8.6	6.4	7.0	5.1
25.....	5.8	8.1	6.8	11.0	14.4	15.0	13.1	9.9	9.0	7.0	6.8	5.3
26.....	5.9	8.0	6.7	10.7	15.4	14.6	12.8	9.7	9.4	6.9	6.6	5.4
27.....	5.9	8.2	6.8	10.7	15.0	14.3	12.7	9.5	9.8	6.7	6.5	5.5
28.....	5.9	8.5	10.0	10.6	14.8	14.7	12.0	10.1	10.0	7.1	6.5	5.5
29.....	5.4	-----	10.3	12.5	15.2	15.1	11.6	10.2	11.3	7.5	5.7	5.0
30.....	4.7	-----	9.9	12.5	15.0	15.1	11.4	10.0	11.2	7.4	5.4	4.5
31.....	5.5	-----	9.5	-----	14.8	-----	11.1	10.9	-----	7.7	-----	4.2
Means.	5.4	6.3	9.5	10.9	13.1	15.0	13.0	9.2	8.3	7.6	7.8	5.3

\* 15.5 during day.

## MISSOURI RIVER SYSTEM—MISSOURI RIVER, KANSAS CITY, MO.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	5.2	6.3	7.3	9.8	9.1	14.7	14.8	10.4	7.1	7.7	7.1	6.3
2.....	4.9	5.7	7.1	9.7	9.0	15.2	14.4	10.2	7.0	8.2	7.0	6.2
3.....	5.0	6.0	7.1	9.6	8.6	15.5	14.3	10.0	7.2	8.3	7.1	6.2
4.....	4.5	6.2	6.9	10.0	8.4	15.7	14.1	9.7	7.2	8.2	7.5	6.3
5.....	4.5	8.2	7.4	10.3	8.2	15.7	13.9	9.3	7.1	8.0	7.8	6.2
6.....	4.9	7.5	9.1	12.8	8.3	16.0	16.7	9.4	7.1	7.8	7.8	6.3
7.....	4.8	7.4	9.3	14.3	9.0	15.6	15.7	9.4	6.9	7.9	7.6	6.5
8.....	4.6	7.3	8.4	14.6	9.5	15.5	14.5	9.0	6.8	7.7	7.5	6.3
9.....	5.0	7.6	6.9	15.0	9.5	15.3	13.7	9.3	6.7	7.7	7.5	6.2
10.....	4.6	7.6	7.3	15.5	9.4	15.9	13.3	9.2	6.6	7.5	7.6	6.2
11.....	3.7	7.4	8.9	15.0	9.2	17.2	13.0	9.4	6.8	7.4	7.4	6.1
12.....	4.2	7.1	8.7	13.9	9.1	17.7	13.0	8.8	6.7	7.4	7.4	6.3
13.....	4.5	7.2	8.9	15.4	9.0	17.7	12.9	8.7	6.8	7.6	7.2	6.3
14.....	5.5	6.4	8.8	16.4	9.5	17.4	12.7	8.3	7.0	7.8	7.2	6.2
15.....	5.9	6.6	8.8	16.5	9.2	17.1	12.7	8.4	8.0	7.7	7.1	4.4
16.....	5.6	6.7	8.6	15.4	8.9	16.9	13.3	8.7	10.5	7.8	7.0	4.0
17.....	4.9	6.8	8.5	14.6	9.5	16.9	13.9	8.6	10.4	7.7	7.0	3.9
18.....	4.8	7.1	8.8	13.2	9.0	16.7	12.8	8.5	9.8	7.6	7.0	3.7
19.....	4.5	9.2	9.0	12.7	8.7	17.7	12.0	8.5	9.0	7.6	6.9	3.9
20.....	4.9	7.4	10.1	12.3	8.5	18.5	11.6	8.8	8.8	7.4	6.8	4.2
21.....	5.6	7.7	10.3	12.0	8.6	18.9	11.2	8.5	8.7	7.3	6.8	4.1
22.....	6.7	6.8	10.7	11.6	11.9	19.0	11.0	8.3	8.4	7.4	6.7	4.1
23.....	6.8	6.7	9.1	11.3	11.6	19.2	10.5	8.0	8.2	7.4	6.7	4.3
24.....	6.2	9.9	9.3	10.8	11.1	19.4	10.3	7.9	8.2	7.7	6.6	4.4
25.....	6.2	11.3	9.0	10.5	11.3	19.4	10.2	8.1	8.1	7.6	6.5	4.4
26.....	6.1	12.2	10.0	10.2	11.0	19.2	10.2	7.7	7.9	7.6	6.5	4.4
27.....	6.0	11.1	10.4	10.0	11.1	18.9	10.5	7.5	7.8	7.5	6.4	4.6
28.....	6.1	8.5	10.4	9.7	11.1	17.5	10.7	7.4	7.8	7.4	6.4	4.7
29.....	6.3	.....	10.4	9.5	10.9	16.4	11.1	7.3	7.9	7.3	6.3	4.7
30.....	6.4	.....	10.2	9.3	14.1	15.4	10.7	7.3	7.9	7.1	6.3	4.4
31.....	6.4	.....	10.0	.....	14.8	.....	10.8	7.2	.....	7.2	.....	4.3
<b>Means.</b>	<b>5.3</b>	<b>7.7</b>	<b>8.9</b>	<b>12.4</b>	<b>9.6</b>	<b>17.1</b>	<b>12.6</b>	<b>8.6</b>	<b>7.8</b>	<b>7.6</b>	<b>7.0</b>	<b>5.2</b>
<b>1902</b>												
1.....	4.2	Frozen.	8.3	11.4	9.1	14.7	16.4	14.1	16.7	11.1	7.4	6.7
2.....	4.1	.....	7.9	11.7	9.0	14.4	18.8	14.0	17.0	11.0	7.2	6.5
3.....	4.0	.....	7.6	14.3	8.8	14.2	19.0	13.8	15.6	11.2	7.3	6.4
4.....	4.0	.....	8.3	13.6	8.9	13.8	19.4	13.3	14.5	11.2	7.3	6.3
5.....	4.3	.....	8.7	12.8	9.1	14.2	19.0	13.0	13.3	12.8	7.7	6.5
6.....	4.2	.....	9.3	12.3	11.0	14.4	19.0	12.6	12.5	14.0	8.6	6.4
7.....	4.0	.....	9.2	12.2	11.3	15.2	18.3	12.3	11.5	14.9	9.1	6.5
8.....	4.2	.....	9.0	11.8	11.2	16.8	19.1	12.0	11.9	13.8	8.8	5.9
9.....	4.3	.....	9.5	11.6	13.1	16.3	19.3	11.8	11.6	12.9	8.3	5.2
10.....	4.4	.....	9.6	11.3	12.4	16.5	21.7	11.6	10.1	12.2	7.8	4.6
11.....	5.4	.....	10.6	11.4	11.9	19.0	22.5	11.4	9.5	11.7	7.6	3.9
12.....	5.6	.....	10.8	11.2	11.5	18.9	22.8	11.3	9.0	11.2	7.1	3.6
13.....	5.9	.....	11.3	11.2	11.2	18.3	22.8	10.4	8.6	10.9	6.9	3.6
14.....	5.7	.....	11.5	11.8	11.1	17.7	23.1	10.1	8.2	10.8	7.0	3.6
15.....	5.9	.....	9.6	11.7	11.2	17.8	23.1	9.8	8.0	11.1	7.0	3.5
16.....	5.8	.....	9.3	10.8	10.3	17.6	22.1	10.1	7.9	12.5	7.2	3.8
17.....	6.2	.....	9.0	10.3	10.0	17.0	20.0	9.7	7.4	13.0	8.5	4.2
18.....	6.3	.....	9.3	10.0	9.9	16.3	18.4	9.5	7.3	12.3	9.0	6.3
19.....	6.9	.....	9.1	13.2	9.7	15.7	19.7	9.3	7.1	11.5	9.0	8.2
20.....	6.5	8.8	9.5	13.9	9.6	16.0	20.2	9.8	6.9	11.0	8.8	8.6
21.....	6.7	8.5	8.5	12.3	9.6	16.1	19.5	10.0	6.8	10.4	8.6	6.3
22.....	6.6	8.4	8.6	11.4	10.5	16.5	19.6	9.8	7.0	9.9	8.5	6.0
23.....	6.4	8.3	8.8	11.0	11.5	16.9	19.4	10.5	7.5	9.2	8.4	7.6
24.....	6.4	8.3	7.6	10.6	12.0	17.5	17.7	11.2	7.6	8.8	7.9	7.9
25.....	6.2	8.2	7.5	10.0	13.2	17.2	16.7	11.3	8.9	8.6	7.7	7.8
26.....	6.2	8.0	7.6	9.7	13.3	16.6	16.3	11.5	9.9	8.4	7.5	7.7
27.....	6.1	7.6	10.3	9.5	13.7	16.1	15.8	11.6	10.2	8.3	7.4	7.6
28.....	7.1	7.3	10.8	9.3	14.0	16.0	15.7	12.2	10.8	8.2	7.2	9.9
29.....	6.9	.....	10.6	9.5	12.3	16.1	15.2	12.7	11.7	8.0	7.1	10.7
30.....	6.7	.....	11.5	9.6	15.0	16.2	14.6	13.0	11.8	7.8	7.0	11.8
31.....	Frozen.	.....	11.8	.....	15.2	.....	14.0	14.8	.....	7.7	.....	12.0
<b>Means.</b>	<b>5.6</b>	<b>.....</b>	<b>9.4</b>	<b>11.4</b>	<b>11.3</b>	<b>16.3</b>	<b>19.0</b>	<b>11.6</b>	<b>10.2</b>	<b>10.9</b>	<b>7.8</b>	<b>6.6</b>

a 23.2 at 5 p. m.

## DESCRIPTION OF RIVER GAGES, ETC.

877

## MISSOURI RIVER SYSTEM—MISSOURI RIVER, KANSAS CITY, MO.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	12.2	7.9	8.6	10.7	8.7	35.0	17.0	12.2	18.0	9.7	8.3	6.3
2.....	12.2	6.2	8.8	10.6	9.2	35.0	16.7	12.7	17.3	9.6	8.7	6.8
3.....	12.9	6.3	11.6	10.2	9.4	34.4	16.6	15.0	16.4	9.4	9.2	6.7
4.....	12.7	5.8	10.3	10.7	9.9	32.9	16.3	15.4	15.8	9.3	10.0	6.6
5.....	12.4	5.6	10.1	10.3	10.3	31.0	16.4	15.7	15.7	9.3	9.9	6.5
6.....	11.9	6.5	9.8	10.3	10.1	28.9	16.7	15.6	15.4	9.4	9.9	6.4
7.....	11.5	7.8	9.6	11.5	10.0	27.4	16.5	15.9	14.8	9.9	10.1	6.0
8.....	11.2	7.7	9.9	11.3	10.0	25.7	16.5	15.0	14.0	10.0	10.0	5.4
9.....	9.5	5.8	9.6	10.7	10.1	23.7	15.5	14.7	13.3	10.2	9.7	5.2
10.....	9.0	5.8	10.4	9.9	9.5	21.7	15.1	14.3	13.9	10.3	9.4	5.0
11.....	8.3	5.9	11.8	9.7	9.2	20.0	15.0	14.9	13.6	10.0	9.0	5.0
12.....	8.1	6.2	14.7	9.5	9.5	18.6	14.7	14.4	13.1	9.7	8.9	5.2
13.....	7.6	6.3	13.2	9.5	10.4	17.4	15.6	14.5	12.9	9.4	8.7	5.4
14.....	7.8	6.7	14.6	13.0	12.9	16.5	16.6	15.5	12.6	9.3	8.6	4.1
15.....	8.3	6.8	16.7	14.0	13.8	15.3	16.2	16.7	13.9	9.8	8.5	3.9
16.....	8.8	6.6	15.5	12.7	14.7	14.6	15.1	16.9	15.3	9.9	8.3	3.5
17.....	9.3	7.0	15.0	11.9	14.8	15.3	14.6	17.3	15.2	9.8	8.3	4.3
18.....	9.5	6.8	14.3	11.1	13.8	16.3	14.4	17.1	14.4	9.5	8.3	4.2
19.....	9.4	7.2	14.0	10.8	13.2	16.4	14.4	16.5	13.8	9.4	8.1	4.5
20.....	9.4	7.7	13.7	10.4	12.9	16.4	14.8	15.1	13.4	9.3	8.1	4.6
21.....	9.4	8.2	13.9	10.1	13.2	16.3	15.0	14.3	12.7	9.1	7.8	5.0
22.....	8.9	9.2	14.4	10.0	13.3	16.3	15.3	14.3	12.0	8.9	7.3	5.5
23.....	9.0	9.4	14.2	9.8	14.4	16.1	15.2	14.0	11.7	8.7	6.7	5.6
24.....	8.8	*9.8	13.6	9.4	16.2	16.0	14.4	13.8	11.8	8.6	6.4	5.0
25.....	8.5	6.7	13.0	9.2	16.8	15.9	13.8	13.4	11.6	8.6	6.4	6.5
26.....	8.4	6.4	12.7	9.1	18.0	16.1	13.4	13.0	11.1	8.3	6.4	6.2
27.....	8.6	6.5	12.5	9.0	18.7	16.5	12.9	12.8	10.7	8.2	6.6	6.1
28.....	8.5	7.3	12.0	8.9	21.7	17.7	12.6	14.5	10.4	8.2	6.6	5.9
29.....	8.4	.....	11.6	8.8	23.3	17.5	12.4	16.4	10.2	8.1	6.4	7.2
30.....	9.3	.....	11.3	8.6	25.0	17.4	12.0	17.9	9.9	8.1	6.4	6.9
31.....	8.8	.....	11.0	.....	†27.5	.....	11.9	17.4	.....	8.0	.....	6.5
Means.	9.6	7.0	12.3	10.4	13.9	20.9	15.0	15.1	13.5	9.2	8.2	5.6
<b>1904</b>												
1.....	6.7	11.1	6.5	9.3	17.5	17.8	19.8	12.8	9.5	6.9	6.8	6.2
2.....	6.6	10.6	6.6	8.9	16.7	16.4	20.2	12.4	9.0	8.1	6.8	6.2
3.....	6.5	11.1	7.7	8.7	15.9	17.9	19.6	11.9	8.7	8.1	6.7	6.3
4.....	4.8	10.6	7.0	8.4	15.3	20.7	19.5	11.7	9.5	7.8	6.5	6.3
5.....	5.2	10.3	6.5	9.0	14.9	20.7	19.4	11.4	8.3	7.7	6.4	6.2
6.....	5.6	10.4	6.5	9.7	16.1	20.2	22.1	11.2	8.1	7.7	6.3	6.1
7.....	6.0	8.4	7.1	9.8	14.7	20.3	23.4	10.9	8.1	7.3	6.3	5.9
8.....	6.6	6.9	8.7	10.2	15.5	20.1	25.2	10.7	7.9	7.0	6.3	5.4
9.....	5.9	7.6	8.1	10.1	15.3	19.2	24.8	10.6	8.1	6.8	6.3	5.2
10.....	7.2	8.6	8.2	10.7	15.1	18.4	23.4	10.9	7.9	6.7	6.1	5.3
11.....	7.3	8.8	8.3	11.2	15.0	18.2	21.9	11.0	7.7	6.6	6.1	5.4
12.....	7.4	8.8	8.4	12.9	15.1	19.2	20.3	11.1	7.7	6.5	6.1	5.4
13.....	7.3	8.1	9.3	12.5	14.8	20.1	19.1	10.9	7.8	6.5	6.2	5.3
14.....	7.5	7.3	9.1	13.9	14.8	20.2	19.0	10.6	8.1	6.3	6.3	5.2
15.....	6.9	7.0	8.5	17.7	14.7	19.9	19.1	10.3	8.3	6.4	6.2	4.9
16.....	7.4	7.2	8.0	19.0	14.4	19.9	18.8	10.2	9.3	6.4	6.3	3.8
17.....	7.2	7.5	7.8	19.4	14.8	19.4	18.3	9.8	8.5	6.3	6.3	3.3
18.....	6.8	7.6	7.9	18.6	14.2	19.9	17.6	9.7	8.0	6.4	6.2	3.7
19.....	6.7	7.8	8.0	17.7	14.0	20.0	16.9	10.2	7.7	6.3	6.2	3.1
20.....	6.8	7.9	8.2	17.1	14.4	19.4	16.2	10.5	7.4	6.3	6.1	3.0
21.....	6.9	7.1	8.1	17.0	14.3	18.8	16.2	10.7	7.1	6.2	6.3	3.1
22.....	7.0	6.7	8.4	16.5	14.2	18.2	17.0	11.2	6.9	6.5	6.2	3.1
23.....	7.0	6.2	8.7	16.2	13.8	17.7	17.1	10.5	6.6	6.4	6.2	3.0
24.....	6.6	6.1	11.5	17.0	13.3	17.3	16.2	10.1	6.7	7.6	6.3	3.4
25.....	6.5	6.4	12.2	19.1	12.8	18.4	15.9	9.8	6.5	8.0	6.3	5.4
26.....	6.5	6.5	12.7	19.9	12.7	19.5	15.6	9.4	6.9	8.3	6.4	4.4
27.....	8.0	6.5	11.7	19.5	13.0	20.7	15.3	9.2	7.0	7.6	6.3	4.0
28.....	10.8	6.6	10.7	19.7	15.7	20.0	14.7	9.0	6.9	7.3	6.3	3.1
29.....	11.5	6.7	10.8	19.1	15.8	19.6	14.1	8.7	6.8	7.0	6.2	2.1
30.....	11.5	.....	10.8	18.5	18.3	19.9	13.3	8.7	6.6	7.1	6.2	2.1
31.....	11.9	.....	9.7	.....	19.4	.....	13.0	9.8	.....	7.0	.....	2.1
Means.	7.3	8.0	8.8	14.6	15.1	19.3	18.5	10.5	7.8	7.0	6.3	4.5

\*12.7 at 7 p. m.

†31.0 at 7 p. m.

## DESCRIPTION OF RIVER GAGES, ETC.

## MISSOURI RIVER SYSTEM—MISSOURI RIVER, GLASGOW, Mo.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1		2.2	5.1	6.6	4.7	18.1						
2		4.2	5.5	6.5	4.6	20.0						
3		3.0	6.2	6.3	4.8	23.0						
4		3.3	6.5	6.7	5.1	25.7						
5		3.0	7.0	7.5	5.3	26.3						
6		2.4	6.3	7.5	5.8	25.9						
7		1.8	6.5	6.8	5.9	25.5						
8		1.5	7.1	6.7	5.6	23.5						
9		1.6	7.7	7.1	5.5	22.2						
10		2.0	7.5	6.8	5.5	20.6						
11		2.0	7.2	7.5	5.3	18.8						
12		2.1	7.7	7.8	5.0	16.8						
13		2.9	9.7	7.6	5.0	14.7						
14		3.6	8.9	7.8	5.7	13.4						
15		3.4	9.5	8.2	7.4	12.3						
16		3.1	10.6	9.6	8.3	11.3						
17		1.5	10.0	8.8	8.9	10.6						
18		1.0	9.5	7.9	8.7	10.4						
19		0.5	9.0	7.2	8.6	11.5						
20		0.4	8.8	6.8	8.1	11.5						
21		0.4	8.7	6.5	7.9	11.5						
22		0.8	8.8	6.3	8.1	11.6						
23		1.4	9.0	6.2	8.5	11.5						
24		1.9	9.2	5.9	9.1	11.5						
25		6.5	8.9	5.5	11.2	11.3						
26		3.0	8.3	5.2	11.5	11.1						
27		3.2	8.0	5.1	12.3	11.0						
28		4.1	7.7	5.0	13.0	11.1						
29			7.3	4.9	14.7	12.0						
30			7.1	4.9	15.8	12.0						
31			6.9		16.7							
<b>Means</b>		<b>2.4</b>	<b>7.9</b>	<b>6.8</b>	<b>8.1</b>	<b>15.9</b>						
<b>1904</b>												
1			3.8	7.4	14.7	13.6	12.8	8.5	5.0	4.0	2.8	1.3
2			3.5	6.5	13.8	12.4	12.9	8.2	5.7	3.6	2.8	1.4
3			3.1	5.2	12.5	11.3	13.2	7.8	5.7	3.3	2.7	1.5
4			3.1	5.9	11.4	12.3	13.0	7.4	5.2	3.9	2.6	1.7
5			2.8	5.4	10.7	14.6	12.7	7.1	4.5	4.2	2.4	1.8
6			2.5	5.3	10.2	14.6	12.5	6.9	4.3	3.8	2.2	1.9
7			2.1	5.1	11.7	13.8	14.2	6.7	4.2	3.5	2.0	1.7
8			2.1	5.4	11.7	13.6	16.3	6.5	4.1	3.3	1.7	1.5
9			2.4	6.8	11.0	13.5	17.5	6.3	4.1	3.2	1.5	1.4
10			3.3	7.1	11.0	12.8	18.2	6.0	4.0	3.0	1.4	1.2
11			3.4	8.9	10.7	12.1	17.9	6.2	3.9	2.9	1.3	1.1
12			3.6	8.3	10.2	11.8	16.5	6.4	3.8	2.7	1.5	1.0
13			3.8	9.7	9.9	12.3	14.9	6.5	3.7	2.5	1.8	0.9
14			4.2	9.6	9.5	12.9	13.5	6.4	4.0	2.4	1.9	0.5
15			4.8	9.1	9.5	13.2	12.9	6.1	4.7	2.4	1.9	-1.0
16			4.5	12.2	9.3	13.2	13.2	5.9	5.6	2.4	1.9	-1.0
17			4.1	13.6	9.5	13.2	12.7	5.8	6.4	2.3	1.8	-0.9
18			3.8	13.0	10.1	13.2	12.4	5.6	5.7	2.2	1.7	-0.3
19			3.8	12.5	10.4	13.6	11.9	5.7	5.0	2.1	1.7	-0.8
20			3.4	12.3	9.7	14.0	10.4	6.6	4.7	2.0	1.7	-0.2
21			4.1	12.2	9.3	14.2	10.2	7.2	4.5	2.0	1.7	-0.8
22			4.5	12.4	9.0	13.6	10.4	7.5	4.1	2.0	1.8	-0.3
23			4.8	12.2	8.7	12.9	10.5	7.5	3.9	2.0	1.9	-0.7
24			5.1	12.3	8.5	12.0	11.2	7.0	3.6	2.4	2.0	-0.6
25			6.5	13.1	8.3	11.7	10.9	6.1	3.4	3.1	1.9	-0.5
26			8.8	15.7	8.0	12.0	10.5	5.8	3.7	3.5	1.8	0.6
27			9.3	16.0	8.2	12.7	10.2	5.5	3.9	3.7	1.8	1.0
28			9.2	15.5	7.7	13.6	9.8	5.1	4.1	3.4	1.7	Frozen.
29			8.5	15.2	9.2	13.6	9.6	4.8	4.5	3.2	1.5	
30			7.8	15.4	11.1	12.9	9.3	4.6	4.7	3.0	1.4	
31			7.8		13.2		8.9	4.4		2.9		
<b>Means</b>			<b>4.7</b>	<b>10.3</b>	<b>10.3</b>	<b>13.0</b>	<b>12.6</b>	<b>6.4</b>	<b>4.5</b>	<b>2.9</b>	<b>1.9</b>	<b>0.5</b>



## MISSOURI RIVER SYSTEM—MISSOURI RIVER, BOONVILLE, MO.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	5.3	5.8	10.6	8.4	10.7	12.2	12.4	9.5	8.6	9.6	7.8	5.4
2.....	5.0	5.4	10.6	8.2	10.6	11.7	12.3	9.3	8.9	9.7	8.3	5.3
3.....	4.7	5.4	10.5	8.0	10.4	11.6	12.3	8.9	9.2	9.3	8.5	5.3
4.....	4.4	5.4	10.4	8.0	10.0	11.5	11.8	8.5	9.2	8.8	9.4	5.2
5.....	4.4	5.5	10.7	9.2	9.9	11.3	11.5	8.4	8.4	9.3	9.8	5.2
6.....	4.2	5.6	11.0	9.4	9.6	11.4	11.0	8.0	7.8	9.7	9.6	5.2
7.....	4.3	6.0	13.4	8.8	9.4	11.5	10.5	7.8	7.4	9.8	9.5	5.0
8.....	4.4	5.6	14.8	8.3	9.1	11.5	10.0	7.5	6.9	8.8	8.9	5.0
9.....	4.1	5.6	15.8	8.3	9.0	11.5	9.9	7.3	6.5	7.9	8.5	5.0
10.....	3.8	7.5	13.3	8.3	9.3	11.4	10.0	7.1	6.6	7.3	8.3	5.0
11.....	3.5	7.1	14.9	8.4	12.0	11.3	10.4	6.9	6.6	6.9	8.1	4.9
12.....	3.3	9.6	15.3	11.6	12.4	12.7	10.7	6.8	6.5	6.6	7.6	4.9
13.....	3.6	9.2	14.9	12.0	11.7	13.3	10.9	6.4	5.9	6.0	7.2	4.9
14.....	3.9	9.2	14.7	11.1	11.2	12.8	11.4	6.4	5.8	6.3	6.8	4.9
15.....	4.4	8.9	14.2	10.0	11.3	12.2	11.0	6.3	5.8	6.5	6.6	4.9
16.....	4.6	8.7	14.9	9.3	11.4	11.8	10.4	7.3	5.8	6.4	6.5	4.9
17.....	4.9	8.8	13.3	9.1	11.2	11.7	9.8	8.6	5.9	6.2	6.3	4.9
18.....	5.0	8.9	12.7	9.3	11.5	11.9	9.4	8.5	6.3	6.1	6.2	4.8
19.....	4.9	9.0	9.9	8.9	11.6	12.4	10.2	8.1	7.3	6.0	6.2	4.8
20.....	4.8	9.1	9.2	8.9	11.4	13.8	11.1	7.7	7.4	5.9	6.1	4.8
21.....	4.8	9.5	8.5	8.9	11.4	13.3	12.6	7.6	6.7	5.5	6.2	4.8
22.....	4.8	10.0	7.9	9.0	11.3	14.1	12.5	7.9	7.0	5.5	6.3	4.8
23.....	4.8	10.5	7.7	9.0	11.1	13.5	12.2	7.9	7.3	5.5	6.5	4.8
24.....	4.8	11.0	7.7	9.6	11.1	13.1	11.7	8.0	7.3	5.4	6.5	4.8
25.....	4.9	11.2	7.2	10.0	10.9	13.9	11.6	8.0	7.2	5.3	6.5	4.9
26.....	4.9	11.5	6.6	9.6	11.0	12.7	11.4	8.1	7.3	5.4	6.6	4.9
27.....	5.0	11.1	6.3	9.5	12.2	12.3	11.0	8.2	7.4	5.5	6.6	4.9
28.....	4.9	10.7	6.2	9.3	12.6	11.9	10.8	8.6	7.8	5.6	6.2	4.9
29.....	4.8	.....	6.2	9.1	12.2	11.9	10.6	8.5	8.2	6.0	5.8	4.9
30.....	4.7	.....	8.5	9.9	12.1	12.2	10.1	8.5	8.6	6.2	5.4	4.8
31.....	4.6	.....	8.9	.....	12.2	.....	9.7	8.5	.....	6.8	.....	4.7
<b>Means.</b>	<b>4.5</b>	<b>8.3</b>	<b>10.9</b>	<b>9.2</b>	<b>11.0</b>	<b>12.3</b>	<b>11.0</b>	<b>7.9</b>	<b>7.3</b>	<b>7.0</b>	<b>7.3</b>	<b>5.0</b>
<b>1901</b>												
1.....	4.9	3.9	3.8	7.4	8.1	9.6	13.4	8.5	6.2	6.2	5.9	5.4
2.....	5.2	3.8	4.2	7.2	8.0	11.8	12.6	8.8	6.2	6.3	5.9	5.4
3.....	6.5	3.6	3.8	7.1	7.9	12.3	12.1	8.9	6.1	6.4	5.8	5.4
4.....	6.3	3.3	3.4	7.2	7.8	12.5	11.7	8.4	6.0	6.5	5.8	5.4
5.....	6.1	3.0	3.0	7.3	7.6	12.6	11.6	8.2	6.0	6.6	5.8	5.4
6.....	5.8	1.9	3.5	7.7	7.5	12.8	11.5	8.1	6.0	6.7	5.9	5.3
7.....	5.5	1.7	4.2	8.6	7.4	12.7	12.3	8.1	6.0	6.7	6.0	5.3
8.....	5.2	1.5	5.5	11.5	7.3	12.6	13.0	8.0	5.9	6.6	6.2	5.4
9.....	4.9	1.4	5.9	13.0	7.5	12.4	12.5	7.9	5.8	6.5	6.3	5.3
10.....	4.6	1.3	5.8	13.4	7.9	12.4	11.8	7.9	5.7	6.4	6.2	5.3
11.....	4.2	1.3	6.8	13.9	7.9	12.3	11.3	7.9	5.6	6.3	6.2	5.4
12.....	3.9	1.5	7.6	13.4	7.9	13.0	10.8	7.9	5.5	6.2	6.3	5.4
13.....	3.8	1.4	8.2	13.0	7.8	13.7	10.4	7.8	5.6	6.2	6.4	5.3
14.....	3.7	1.5	7.7	13.4	7.8	14.2	10.4	7.7	5.7	6.1	6.3	5.3
15.....	3.6	1.9	8.1	14.4	7.8	14.1	10.4	7.6	5.8	6.3	6.2	5.4
16.....	4.0	2.4	7.7	14.8	7.9	13.5	10.3	7.5	6.3	6.5	6.1	5.7
17.....	4.4	2.5	7.6	14.3	7.7	13.1	10.3	7.4	6.7	6.6	6.0	5.7
18.....	4.6	2.6	7.9	13.0	7.6	13.4	10.8	7.3	7.5	6.5	5.9	5.5
19.....	4.7	3.1	8.5	12.2	7.5	13.7	11.2	7.3	8.7	6.4	5.8	5.4
20.....	4.5	4.0	8.9	11.4	7.5	14.0	10.4	7.3	8.3	6.3	5.8	5.3
21.....	4.3	4.4	9.3	11.0	7.5	14.2	9.9	7.4	7.7	6.2	5.7	5.2
22.....	4.1	4.8	9.7	10.4	7.6	14.5	9.6	7.4	7.4	6.2	5.7	5.1
23.....	4.0	5.2	10.2	10.0	7.7	14.9	9.4	7.3	7.2	6.1	5.7	5.1
24.....	4.5	4.5	9.4	9.8	7.7	15.3	9.0	7.1	7.0	6.0	5.6	5.3
25.....	4.9	3.8	9.0	9.6	9.0	15.5	8.8	7.0	6.9	6.1	5.6	5.4
26.....	4.7	3.3	8.4	9.5	9.3	15.8	8.6	6.8	6.8	6.2	5.5	5.6
27.....	4.5	2.9	7.5	9.3	9.1	15.4	8.5	6.6	6.6	6.3	5.4	5.7
28.....	4.4	3.3	7.1	8.9	9.0	14.8	8.4	6.5	6.4	6.3	5.4	5.7
29.....	4.3	.....	7.6	8.6	9.1	14.4	8.4	6.5	6.3	6.2	5.4	5.7
30.....	4.2	.....	7.9	8.4	9.2	14.1	8.9	6.4	6.2	6.1	5.3	5.8
31.....	4.0	.....	7.6	.....	9.3	.....	7.9	6.3	.....	6.0	.....	5.8
<b>Means.</b>	<b>4.7</b>	<b>2.8</b>	<b>7.0</b>	<b>10.7</b>	<b>8.0</b>	<b>13.5</b>	<b>10.5</b>	<b>7.5</b>	<b>6.5</b>	<b>6.3</b>	<b>5.9</b>	<b>5.4</b>

## DESCRIPTION OF RIVER GAGES, ETC.

MISSOURI RIVER SYSTEM—MISSOURI RIVER, BOONVILLE, MO.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1902												
1.....	5.7	6.2	7.6	9.6	8.4	12.5	13.5	13.0	13.4	13.0	8.0	8.0
2.....	5.6	6.2	6.6	10.0	8.8	12.6	14.3	12.8	14.8	12.6	7.9	8.0
3.....	5.3	Frozen.	6.2	10.4	8.2	12.5	16.4	12.5	15.0	12.5	7.8	7.9
4.....	5.6		6.7	10.9	8.1	12.4	16.0	12.3	14.8	12.4	7.7	8.2
5.....	5.9		7.1	11.9	8.0	12.4	16.1	12.0	14.0	12.9	7.7	8.5
6.....	6.2		7.5	11.3	7.8	12.2	16.0	11.7	13.0	13.4	8.0	8.8
7.....	6.5		7.8	10.4	7.7	12.1	16.1	11.5	12.4	14.3	9.3	9.0
8.....	6.5		8.4	10.0	8.0	12.0	15.6	11.3	11.9	14.5	9.9	8.7
9.....	6.3		7.9	9.8	9.1	12.2	15.2	11.3	11.4	14.0	9.6	8.4
10.....	6.0		8.1	9.7	9.7	12.6	15.7	11.2	11.2	13.5	9.3	7.8
11.....	6.0		8.2	9.6	10.1	14.5	16.6	11.1	10.9	13.2	8.6	7.0
12.....	6.2		8.3	9.5	9.8	13.8	17.3	11.0	10.2	13.0	8.4	6.6
13.....	6.1		8.9	9.5	9.4	15.5	17.3	10.7	9.5	12.3	8.1	6.2
14.....	6.0		9.3	9.4	9.1	14.9	18.5	10.4	9.1	11.6	7.9	6.0
15.....	6.0		8.8	9.3	8.9	14.6	18.6	10.1	8.7	11.2	7.9	5.9
16.....	6.0		8.4	9.2	8.8	14.3	18.6	9.9	8.3	11.7	8.2	5.7
17.....	6.2		8.0	9.6	8.6	14.3	18.3	9.8	8.2	12.5	8.9	5.6
18.....	6.5		7.6	9.1	8.4	14.1	17.1	9.7	8.0	12.1	9.5	5.2
19.....	6.5		7.5	8.6	8.3	13.6	16.0	10.2	7.9	12.6	10.0	4.8
20.....	6.6		7.5	8.9	8.0	13.2	16.2	10.3	7.8	12.2	10.1	5.1
21.....	6.5		7.6	11.1	8.0	12.8	16.9	10.1	7.5	11.6	9.8	6.4
22.....	6.5		7.7	12.0	8.0	13.0	16.9	9.9	7.4	11.1	9.4	7.5
23.....	6.4		7.8	10.4	8.1	13.3	16.4	9.8	8.5	10.5	9.2	9.1
24.....	6.3		7.4	9.4	8.3	13.5	16.7	9.8	9.9	10.4	9.0	10.1
25.....	6.4		7.0	9.0	8.8	13.8	16.2	9.9	9.2	10.0	8.8	10.5
26.....	6.4		6.6	8.9	9.1	13.9	15.3	10.7	9.7	9.6	8.7	10.1
27.....	6.5	7.7	6.5	8.7	11.4	13.7	14.7	10.9	10.6	9.3	8.7	8.3
28.....	6.7	8.1	6.4	8.4	12.2	13.2	14.4	11.3	10.9	9.0	8.6	7.3
29.....	6.8		6.7	8.0	11.7	13.0	14.1	12.2	11.7	8.7	8.3	6.4
30.....	6.6		8.7	7.9	11.4	13.2	14.1	12.8	12.1	8.4	8.1	6.0
31.....	6.4		9.2		10.6		13.5	13.0		8.2		5.6
Means.	6.2		7.7	9.7	9.1	13.3	16.1	11.1	10.6	11.7	8.7	7.4
1903												
1.....	5.8	8.0	10.1	10.8	9.2	22.0	15.0	11.8	15.9	9.8	7.7	5.7
2.....	6.3	8.3	10.8	10.5	9.1	23.8	14.8	10.9	16.0	9.5	7.7	5.7
3.....	6.7	8.6	11.0	10.9	9.0	26.0	14.6	10.9	16.1	9.3	8.1	5.9
4.....	6.9	9.3	11.0	12.0	9.2	29.0	14.4	11.6	15.5	9.2	8.5	6.1
5.....	7.3	9.7	11.8	12.5	9.6	30.6	14.2	13.4	15.1	9.0	9.0	5.9
6.....	6.8	8.9	11.3	13.0	10.0	30.9	14.0	13.8	14.9	8.9	9.2	5.7
7.....	6.4	7.8	11.9	11.9	10.5	30.2	14.1	13.8	14.7	9.7	9.1	5.6
8.....	6.2	7.2	12.6	11.4	12.2	28.8	14.3	12.8	14.1	10.8	9.2	5.6
9.....	6.3	6.8	13.2	11.0	10.2	27.6	14.5	12.0	13.7	11.5	9.0	5.5
10.....	6.4	7.1	13.7	11.1	10.0	26.0	14.0	13.0	13.6	10.9	9.0	5.4
11.....	6.0	7.2	12.5	11.7	9.9	23.6	13.9	12.9	15.6	10.5	8.8	5.3
12.....	5.9	7.4	12.8	12.0	9.5	21.4	13.5	12.5	15.9	9.9	8.6	5.1
13.....	5.8	7.6	14.1	12.2	9.5	18.7	13.3	13.1	15.4	9.7	8.4	5.0
14.....	5.4	8.1	13.5	11.8	9.9	17.0	13.3	13.1	15.1	9.5	8.3	4.8
15.....	5.2	8.5	13.1	11.8	11.2	16.0	13.0	13.2	15.0	9.4	8.2	4.6
16.....	5.1	8.1	14.4	14.0	12.7	15.1	14.5	14.1	15.1	9.3	8.1	4.0
17.....	5.5	7.1	14.0	13.3	13.2	14.3	14.1	14.7	15.1	9.1	8.0	3.7
18.....	5.9	9.8	13.6	12.3	13.6	13.9	13.4	14.7	15.5	9.4	7.8	3.5
19.....	6.3	9.4	13.2	11.8	13.2	14.7	13.9	15.0	15.0	9.2	7.7	3.3
20.....	6.7	9.3	12.8	11.3	12.6	14.8	13.9	14.7	14.9	9.1	7.6	3.5
21.....	6.6	9.2	13.3	11.3	12.2	14.7	13.2	14.0	13.5	9.0	7.4	3.7
22.....	6.6	9.6	13.2	11.1	11.8	15.0	13.3	13.2	12.8	8.9	7.3	3.9
23.....	6.5	10.0	13.3	10.8	12.4	14.9	13.5	12.7	12.2	8.8	7.1	4.0
24.....	6.5	10.4	13.4	10.3	13.4	14.7	14.5	12.6	11.7	8.6	6.9	4.8
25.....	6.4	15.8	13.0	9.8	15.5	14.6	14.1	12.3	11.5	8.4	6.6	5.8
26.....	6.3	11.5	12.5	9.4	16.1	14.4	13.4	12.4	11.1	8.3	6.4	6.2
27.....	6.9	9.7	12.1	9.0	16.5	14.2	12.6	12.3	11.2	8.2	6.1	5.9
28.....	7.6	10.0	11.7	9.0	17.0	14.3	12.0	12.2	11.0	8.1	5.8	5.7
29.....	8.0		11.6	8.9	18.3	14.8	11.6	12.5	10.5	8.0	5.7	5.5
30.....	7.6		11.4	8.8	19.5	15.1	11.4	14.8	10.1	7.8	5.7	5.1
31.....	7.8		11.1		21.0		11.1	15.7		7.7		4.8
Means.	6.4	8.9	12.5	11.2	12.5	19.7	13.6	13.1	13.9	9.2	7.8	5.0

## DESCRIPTION OF RIVER GAGES, ETC.

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## MISSOURI RIVER SYSTEM—MISSOURI RIVER, BOONVILLE, MO.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	4.6	5.5	6.1	11.2	18.1	17.8	15.9	11.8	8.0	7.2	6.2	5.2
2.....	5.6	5.4	6.0	10.5	17.2	16.7	15.2	11.4	9.3	7.3	6.1	5.2
3.....	6.0	5.2	5.9	10.1	16.1	15.4	15.9	11.1	8.6	7.4	6.1	5.1
4.....	5.8	5.7	6.7	9.5	14.7	16.1	16.2	10.8	8.4	7.8	6.0	5.1
5.....	5.6	5.6	7.3	9.1	13.9	17.9	15.8	10.6	8.4	8.0	6.0	5.1
6.....	5.4	5.7	7.4	8.7	13.5	19.1	15.9	10.3	8.0	8.2	6.0	5.1
7.....	5.1	5.9	7.4	8.5	14.3	18.2	17.0	10.1	7.8	7.9	5.9	5.1
8.....	4.8	6.1	7.2	8.4	16.1	17.3	19.4	10.0	7.6	7.4	5.9	5.1
9.....	4.4	6.3	6.5	10.1	15.9	16.9	21.0	9.7	7.5	7.0	5.9	5.1
10.....	4.3	7.5	7.0	11.5	14.5	16.3	22.1	9.6	7.3	6.9	5.8	5.1
11.....	4.1	7.9	7.3	12.1	14.2	15.5	22.0	9.6	7.2	6.7	5.8	5.0
12.....	4.6	7.2	7.7	12.6	13.5	15.1	20.9	9.7	7.4	6.5	5.8	5.0
13.....	5.3	7.1	7.6	12.9	13.0	15.0	19.7	9.8	7.2	6.3	5.7	5.0
14.....	6.1	7.0	7.8	13.5	12.9	14.9	17.2	9.9	7.2	6.2	5.7	5.0
15.....	7.0	7.0	8.0	13.4	12.8	16.5	16.1	9.7	7.2	6.1	5.6	4.9
16.....	8.1	6.9	8.3	14.6	12.7	16.6	15.9	9.7	7.4	6.1	5.4	4.9
17.....	9.0	6.7	8.2	17.4	12.6	16.5	15.9	9.5	7.7	6.0	5.3	4.9
18.....	7.9	6.6	8.0	18.8	13.7	16.8	15.6	9.2	9.1	6.0	5.3	4.3
19.....	7.1	6.6	7.7	17.2	14.0	17.6	15.1	9.8	9.7	6.0	5.3	4.0
20.....	6.5	6.5	7.7	15.6	14.1	17.9	14.5	10.6	9.7	5.9	5.3	3.5
21.....	7.7	5.8	7.6	15.5	13.0	17.7	13.9	11.0	8.7	5.9	5.3	3.2
22.....	8.2	5.3	7.5	15.8	12.4	17.2	13.5	10.7	7.9	5.9	5.3	3.2
23.....	8.5	5.2	8.4	15.6	12.0	16.5	13.8	11.2	7.8	5.8	5.3	3.1
24.....	8.1	6.0	8.8	16.2	11.9	15.5	14.1	11.0	7.5	5.8	5.2	3.1
25.....	7.3	6.4	9.2	18.1	11.8	15.3	14.0	10.8	7.3	5.7	5.2	3.9
26.....	6.6	6.6	12.4	19.8	12.0	15.5	13.5	10.0	7.2	5.8	5.2	4.2
27.....	6.5	6.7	13.1	20.8	11.9	16.4	13.2	9.3	7.1	6.6	5.2	3.6
28.....	6.3	6.4	13.2	20.0	11.6	16.9	13.2	8.9	7.1	7.1	5.2	3.5
29.....	6.0	6.2	13.3	19.3	12.7	17.6	12.8	8.4	7.4	7.2	5.2	3.4
30.....	5.8	.....	12.1	19.0	15.0	16.6	12.5	8.0	7.3	6.8	5.2	2.5
31.....	5.7	.....	11.4	.....	16.9	.....	12.0	7.9	.....	6.3	.....	2.1
Means.	6.3	6.3	8.5	14.2	13.8	16.6	15.9	10.0	7.9	6.6	5.6	4.3

## MISSOURI RIVER SYSTEM—MISSOURI RIVER, HERMANN, MO.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	2.8	3.2	5.1	8.0	10.5	11.7	11.7	9.1	8.7	7.8	6.7	6.0
2.....	Frozen.	3.0	5.0	7.8	11.0	11.6	11.9	8.9	8.5	9.8	7.6	5.7
3.....	.....	3.4	5.0	7.4	10.8	11.3	12.0	8.6	8.6	10.3	8.0	5.5
4.....	.....	2.5	4.9	7.2	10.5	11.0	12.0	8.2	8.8	10.2	8.0	5.2
5.....	.....	2.0	6.1	7.1	10.2	10.8	11.8	7.9	8.9	9.5	8.8	5.0
6.....	.....	1.9	12.3	7.9	10.0	10.7	11.7	7.6	8.2	9.5	9.7	4.8
7.....	.....	1.9	13.5	8.5	9.6	10.9	11.5	7.3	7.6	9.9	9.7	4.8
8.....	4.2	2.9	13.2	8.0	9.4	11.0	11.5	7.1	7.1	10.1	9.2	4.8
9.....	2.8	3.9	13.7	7.5	9.3	10.7	11.4	6.9	6.7	9.3	8.8	4.7
10.....	2.6	3.6	15.6	7.5	9.4	10.6	11.1	6.7	6.3	8.0	8.4	4.6
11.....	3.2	3.2	15.4	8.4	9.8	10.5	11.5	6.5	6.0	7.1	8.1	4.6
12.....	3.2	2.8	16.2	9.4	12.0	10.5	11.5	6.3	5.8	6.6	7.8	4.5
13.....	3.3	2.9	16.2	12.2	12.0	12.3	11.0	6.1	5.7	6.3	7.2	4.5
14.....	3.3	3.1	15.7	12.7	11.5	13.4	10.8	6.1	5.6	6.1	6.7	4.4
15.....	3.4	3.0	15.4	11.8	11.1	12.7	10.9	5.9	5.5	6.0	6.2	4.4
16.....	3.6	3.0	14.6	11.0	11.0	12.1	10.6	5.9	5.3	5.8	5.9	4.4
17.....	3.9	2.8	13.9	10.3	11.2	11.5	10.3	6.1	5.3	5.7	5.8	4.3
18.....	5.6	2.5	12.9	9.7	11.4	11.4	10.2	7.2	5.2	5.6	5.6	4.3
19.....	7.0	2.8	11.3	9.7	11.6	11.3	9.5	7.5	5.3	5.5	5.6	4.3
20.....	5.9	2.8	10.0	9.5	11.4	11.7	9.6	7.2	6.0	5.3	5.6	4.2
21.....	5.2	2.8	9.1	9.4	11.2	13.3	10.4	6.8	6.3	5.1	5.6	4.1
22.....	5.0	4.3	8.4	9.8	11.4	14.1	12.0	6.6	6.3	5.2	5.7	4.1
23.....	4.8	4.8	7.8	9.9	11.4	14.0	12.2	6.8	6.4	5.1	5.9	4.0
24.....	4.8	4.9	7.4	10.4	11.3	13.5	11.9	6.9	6.4	5.0	6.6	3.9
25.....	4.7	5.1	7.3	10.9	11.1	13.3	11.8	7.1	6.2	4.9	7.1	3.8
26.....	4.6	5.3	7.0	10.9	11.0	13.2	11.6	7.1	6.0	4.8	7.3	3.8
27.....	4.5	5.5	6.5	10.8	10.8	12.7	11.1	7.4	6.0	4.8	7.7	3.8
28.....	4.4	5.6	6.1	10.8	11.7	12.1	10.7	7.5	6.2	4.8	7.6	3.8
29.....	4.4	.....	6.0	10.6	12.1	11.7	10.2	8.3	6.9	5.3	6.9	3.9
30.....	4.2	.....	5.9	10.2	11.8	11.5	10.0	8.8	7.3	7.0	6.4	3.9
31.....	3.9	.....	7.2	.....	11.5	.....	9.5	8.5	.....	6.3	.....	3.9
Means.	4.2	3.4	10.2	9.5	10.9	11.9	11.1	7.3	6.6	6.9	7.2	4.5

## MISSOURI RIVER SYSTEM—MISSOURI RIVER, HERMANN, MO.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	3.8	4.2	4.0	9.4	7.8	7.5	12.4	7.4	4.3	4.1	3.9	3.2
2.....	3.8	4.2	4.3	9.5	7.6	9.9	11.6	7.3	4.2	4.0	3.8	3.1
3.....	3.3	4.2	4.9	10.1	7.3	10.4	11.0	7.2	4.1	4.2	3.7	3.1
4.....	2.9	4.6	5.2	10.3	7.1	10.6	10.5	7.1	4.0	4.3	3.6	3.0
5.....	2.4	4.7	5.1	10.2	6.9	10.9	10.1	6.7	3.9	4.5	3.6	3.0
6.....	2.2	4.3	5.0	10.5	6.7	11.2	10.0	6.5	3.9	4.6	3.6	3.0
7.....	2.1	3.9	5.0	10.9	6.5	11.4	9.9	6.4	3.9	4.7	3.7	3.0
8.....	2.3	3.5	5.4	11.7	6.5	11.2	10.5	6.3	3.9	4.7	3.9	3.1
9.....	2.3	3.5	6.7	13.4	6.4	11.2	11.3	6.2	3.8	4.6	4.1	3.1
10.....	4.4	3.5	9.4	13.7	6.4	11.1	11.0	6.2	3.7	4.5	4.2	3.1
11.....	5.6	3.4	12.0	13.7	6.7	10.9	10.2	6.2	3.7	4.4	4.1	3.0
12.....	5.2	3.2	12.3	14.3	6.8	11.0	9.6	6.2	3.6	4.4	4.0	3.0
13.....	5.8	3.1	12.1	14.1	6.7	11.6	9.3	6.1	3.6	4.2	4.1	3.2
14.....	5.5	3.0	12.0	14.5	6.6	12.7	9.0	6.0	3.5	4.1	4.0	3.4
15.....	5.0	3.0	11.8	14.2	6.5	12.9	8.8	5.9	3.5	4.1	4.0	3.1
16.....	4.8	3.2	11.5	15.2	6.5	12.8	8.8	5.8	3.6	4.1	3.9	2.7
17.....	4.7	3.3	11.1	15.5	6.6	12.3	8.7	5.6	3.8	4.1	3.8	1.6
18.....	4.6	3.4	10.7	15.5	6.6	12.0	8.7	5.6	4.3	4.2	3.7	0.8
19.....	4.4	3.6	10.3	14.5	6.4	11.9	8.9	5.6	5.6	4.3	3.6	3.4
20.....	4.4	4.0	10.2	13.5	6.2	12.0	9.4	5.5	6.7	4.4	3.6	Frozen.
21.....	4.3	4.2	10.5	13.0	6.2	12.2	9.0	5.5	6.6	4.3	3.5	.....
22.....	4.2	4.5	10.5	12.5	6.2	12.9	8.3	5.5	6.1	4.2	3.5	.....
23.....	4.1	4.9	10.7	11.6	6.1	13.5	7.9	5.5	5.5	4.0	3.5	.....
24.....	4.0	5.6	11.1	10.8	6.4	13.8	7.6	5.5	5.2	4.0	3.5	.....
25.....	4.2	5.7	10.8	10.2	8.0	13.9	7.3	5.3	4.9	3.9	3.4	.....
26.....	4.5	5.3	10.0	9.6	8.0	14.2	7.1	5.1	4.8	3.9	3.4	.....
27.....	4.6	4.8	9.4	9.1	7.8	14.4	6.9	4.9	4.7	4.0	3.3	.....
28.....	4.5	4.3	8.9	8.6	7.7	14.1	6.8	4.7	4.6	4.1	3.3	.....
29.....	4.4	.....	8.7	8.3	7.6	13.5	6.8	4.5	4.5	4.1	3.2	.....
30.....	4.3	.....	9.0	8.0	7.5	13.0	6.9	4.5	4.3	4.1	3.2	.....
31.....	4.3	.....	9.5	.....	7.5	.....	7.2	4.4	.....	4.0	.....	.....
Means.	4.1	4.0	9.0	11.9	6.9	12.0	9.1	5.8	4.4	4.2	3.7	2.9
<b>1902</b>												
1.....	Frozen.	Frozen.	4.3	9.1	8.5	11.4	16.3	12.4	14.2	13.3	7.2	8.4
2.....	.....	.....	7.4	9.2	10.5	13.6	17.5	11.8	14.4	13.5	7.0	7.8
3.....	4.1	.....	8.4	9.2	9.9	13.3	18.0	11.5	15.6	13.6	6.8	7.8
4.....	4.7	.....	7.6	9.1	9.2	12.8	17.5	11.5	16.0	13.8	6.7	8.0
5.....	5.8	.....	6.9	10.1	8.2	12.7	16.6	11.4	15.5	14.2	6.9	8.1
6.....	5.3	.....	6.5	11.2	7.5	12.3	16.2	11.1	14.9	15.1	7.0	9.0
7.....	5.7	.....	6.1	10.6	7.2	11.7	15.8	10.6	14.0	15.8	6.9	9.7
8.....	5.5	.....	6.8	9.9	7.0	12.0	16.4	10.3	13.0	16.3	7.6	9.6
9.....	5.3	.....	7.1	9.3	8.0	12.4	15.5	10.1	12.4	16.0	8.5	8.9
10.....	2.7	.....	6.5	9.0	8.6	13.7	14.8	9.9	11.7	15.2	8.6	8.1
11.....	2.1	.....	6.4	8.6	8.5	14.2	14.9	10.0	11.1	14.5	8.2	7.6
12.....	2.1	.....	7.8	8.3	9.4	13.8	15.7	10.1	10.3	13.9	7.7	7.1
13.....	2.2	.....	9.0	8.1	9.1	14.7	16.6	10.0	9.6	13.3	7.3	7.5
14.....	2.4	.....	9.7	7.9	8.5	15.1	17.1	9.5	9.1	12.7	7.0	7.7
15.....	2.4	.....	11.4	7.7	8.0	14.6	17.4	9.3	8.7	12.0	6.8	7.1
16.....	2.4	.....	11.4	7.5	7.7	14.1	17.6	9.0	8.2	11.6	6.7	7.4
17.....	2.2	.....	10.8	7.6	7.7	13.7	17.5	8.8	7.7	11.7	7.1	8.0
18.....	2.3	.....	9.9	7.9	8.4	13.6	17.2	8.5	7.4	12.2	8.4	8.9
19.....	2.4	.....	8.5	7.5	8.2	13.3	16.5	8.9	7.1	12.4	9.3	9.4
20.....	2.6	.....	7.4	6.9	7.5	12.5	15.9	9.3	6.8	12.0	9.7	8.9
21.....	2.8	.....	6.9	6.9	7.0	12.0	15.7	9.1	6.6	11.5	9.6	8.6
22.....	2.9	.....	6.6	8.8	6.6	12.3	16.5	9.0	6.4	10.9	9.2	8.4
23.....	2.8	.....	6.3	9.0	6.6	12.3	16.5	8.8	6.3	10.3	8.6	8.4
24.....	2.8	.....	5.9	8.4	6.4	12.4	16.2	8.9	8.2	9.8	8.2	9.6
25.....	2.7	.....	5.6	7.6	7.5	12.9	16.0	9.4	11.0	9.4	8.2	10.7
26.....	2.7	.....	5.6	7.0	9.2	13.4	15.3	10.2	11.8	9.0	8.3	10.8
27.....	2.4	7.2	5.9	7.0	12.2	13.6	14.4	11.4	12.1	8.6	8.5	10.1
28.....	2.1	4.4	5.6	6.9	13.6	13.6	13.8	12.9	13.1	8.3	9.5	8.9
29.....	1.7	.....	5.4	7.0	13.0	14.2	13.4	13.5	13.6	8.0	9.9	7.9
30.....	Frozen.	.....	6.2	6.5	12.3	16.2	13.2	14.3	13.3	7.7	9.2	6.8
31.....	.....	.....	8.5	.....	11.6	.....	12.9	14.5	.....	7.4	.....	6.0
Means.	3.2	.....	7.4	8.3	8.8	13.3	16.0	10.5	11.0	12.1	8.0	8.4

## DESCRIPTION OF RIVER GAGES, ETC.

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## MISSOURI RIVER SYSTEM—MISSOURI RIVER, HERMANN, MO.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	5.5	7.1	11.6	10.6	8.2	22.6	15.3	10.5	14.8	9.5	7.3	5.5
2.....	5.4	6.9	12.2	10.2	8.2	23.2	15.1	10.4	15.1	9.2	7.3	5.4
3.....	5.7	7.0	12.8	9.9	8.3	24.1	14.7	10.9	15.2	8.9	7.3	5.4
4.....	6.3	12.6	12.7	11.2	8.1	25.5	14.4	10.4	15.2	8.7	7.5	5.4
5.....	6.4	12.5	12.7	11.9	8.2	27.4	14.1	10.8	14.7	8.5	8.1	5.5
6.....	6.6	12.3	13.8	12.3	8.4	29.1	13.9	12.6	14.2	8.4	9.3	5.5
7.....	6.6	12.0	14.3	12.4	8.7	29.1	13.8	13.3	14.0	8.8	9.8	5.4
8.....	6.7	11.0	18.0	11.9	9.2	28.8	13.8	13.3	13.7	10.6	9.7	5.3
9.....	6.5	9.7	17.8	11.3	9.6	27.8	13.8	13.2	13.5	12.3	9.6	5.2
10.....	6.4	8.6	17.5	11.4	9.6	26.5	14.0	13.2	13.1	13.0	9.6	5.1
11.....	6.1	8.2	17.1	13.2	9.4	25.3	13.6	12.7	14.5	12.2	9.5	4.8
12.....	5.3	8.2	16.6	13.0	9.2	23.6	13.0	13.2	15.4	11.7	9.2	4.6
13.....	5.0	7.8	16.2	12.8	8.8	21.2	12.8	13.1	15.4	11.3	8.8	4.6
14.....	4.5	7.5	16.8	12.8	8.6	18.8	12.6	13.8	15.3	11.1	8.5	4.4
15.....	5.4	7.8	15.9	12.8	9.2	17.3	12.6	14.0	16.1	10.8	8.3	2.8
16.....	5.4	8.2	15.2	13.1	12.0	16.4	13.3	13.6	16.3	10.5	8.0	2.6
17.....	5.3	7.9	16.0	14.7	14.1	15.5	13.7	14.0	15.8	10.3	7.8	2.9
18.....	4.9	6.5	15.5	14.0	14.9	14.5	13.9	14.4	15.6	10.3	7.6	3.2
19.....	5.3	5.6	14.7	12.9	15.0	14.0	12.9	14.5	15.6	10.2	7.4	3.3
20.....	5.4	5.1	15.0	12.8	14.4	14.6	12.4	14.7	15.0	9.9	7.3	3.7
21.....	5.3	5.0	15.0	12.6	13.9	14.5	12.3	14.6	14.0	9.6	7.2	3.3
22.....	5.5	5.0	14.6	11.7	13.6	14.5	12.5	13.9	13.2	9.4	7.0	3.3
23.....	5.4	5.0	14.8	11.1	13.5	15.0	12.7	13.1	12.4	9.2	6.9	4.3
24.....	5.4	5.3	14.8	10.5	14.0	15.1	13.0	12.5	11.7	9.0	6.6	4.3
25.....	5.5	5.5	14.3	10.0	15.2	15.6	14.1	12.3	11.2	8.7	6.3	4.7
26.....	5.3	7.5	13.8	9.4	18.1	15.2	13.8	12.0	10.9	8.4	6.0	5.0
27.....	6.7	10.0	13.0	8.9	17.6	14.5	12.7	11.9	10.8	8.1	5.7	5.1
28.....	8.1	11.0	12.2	8.5	17.6	14.2	12.0	11.8	10.6	7.9	5.6	5.2
29.....	7.8	.....	11.6	8.3	17.9	14.5	11.5	11.8	10.3	7.7	5.6	5.4
30.....	7.5	.....	11.3	8.2	18.7	15.2	11.1	12.0	9.9	7.6	5.6	5.5
31.....	7.3	.....	10.9	.....	21.0	.....	10.8	12.9	.....	7.4	.....	5.5
<b>Means.</b>	<b>6.0</b>	<b>8.1</b>	<b>14.5</b>	<b>11.5</b>	<b>12.4</b>	<b>19.8</b>	<b>13.2</b>	<b>12.8</b>	<b>13.8</b>	<b>9.7</b>	<b>7.7</b>	<b>4.6</b>
<b>1904</b>												
1.....	5.4	5.4	5.7	12.8	21.1	18.5	18.8	12.2	8.2	7.2	5.9	4.7
2.....	5.3	5.3	5.7	12.3	20.4	18.4	18.5	11.7	8.1	8.0	5.8	4.7
3.....	5.5	5.4	5.7	11.4	19.5	17.2	18.3	11.4	8.7	7.7	5.7	4.6
4.....	5.4	5.3	6.6	10.6	18.4	17.1	18.1	11.3	9.0	7.2	5.7	4.6
5.....	5.2	5.4	6.6	9.9	17.5	20.2	17.7	11.2	8.6	7.4	5.6	4.6
6.....	4.8	5.4	6.3	9.3	16.8	21.1	17.2	10.8	8.2	7.5	5.5	4.6
7.....	4.4	5.5	6.5	8.7	16.3	21.0	17.1	10.4	7.9	7.3	5.4	4.5
8.....	4.4	5.8	6.1	9.1	16.8	20.3	19.2	10.1	7.8	6.9	5.3	4.5
9.....	3.8	6.3	5.7	11.5	17.1	19.8	21.0	9.9	7.9	6.7	5.2	4.5
10.....	3.6	7.0	5.5	12.2	16.5	19.5	22.0	9.6	7.9	6.6	5.2	4.4
11.....	3.8	7.1	5.7	13.2	16.2	18.9	22.6	9.4	7.7	6.5	5.2	4.3
12.....	4.4	7.0	6.5	13.6	15.7	18.5	22.7	9.3	7.5	6.3	5.1	4.1
13.....	5.0	7.0	6.6	13.5	15.0	18.2	21.7	9.3	7.4	6.2	5.1	4.0
14.....	5.5	6.7	6.6	13.7	14.5	18.5	19.8	9.3	7.3	6.0	5.1	4.2
15.....	5.8	6.6	6.7	13.9	14.2	18.8	18.2	9.4	7.2	5.9	5.0	4.5
16.....	5.9	6.5	7.0	13.8	13.9	19.0	17.5	9.3	7.1	5.9	5.0	4.1
17.....	5.8	6.6	7.4	15.9	14.3	18.7	17.5	9.2	7.6	5.8	5.0	3.6
18.....	5.6	6.6	7.8	16.2	15.1	18.1	17.3	9.0	8.7	5.8	5.0	3.4
19.....	5.6	6.0	7.5	15.9	15.4	18.4	17.0	8.9	8.9	5.7	5.0	3.5
20.....	5.5	5.6	7.2	15.4	15.0	18.2	16.5	11.1	10.5	5.6	4.9	3.0
21.....	7.4	5.6	7.2	16.0	14.6	19.0	15.8	10.6	9.8	5.6	4.9	2.8
22.....	11.4	5.2	7.8	15.8	14.2	18.9	15.1	10.9	8.5	5.6	4.9	2.7
23.....	11.4	4.7	8.6	15.7	13.7	18.1	14.6	11.6	7.9	5.5	4.9	2.5
24.....	11.3	5.2	8.7	18.8	13.5	17.4	14.4	11.5	7.5	5.5	4.9	2.4
25.....	11.1	5.8	9.6	22.6	13.2	16.7	14.4	12.4	7.4	5.5	4.8	2.9
26.....	10.3	5.9	11.1	23.3	13.0	16.4	14.0	12.1	7.1	5.6	4.8	3.3
27.....	9.4	5.9	13.9	23.7	13.8	16.5	13.4	11.1	6.9	5.7	4.8	3.1
28.....	8.2	5.9	14.7	23.5	13.5	17.6	13.1	10.1	7.0	6.1	4.8	3.1
29.....	7.1	5.8	15.5	22.6	13.6	19.0	12.9	9.3	7.1	6.3	4.8	4.3
30.....	6.1	.....	15.3	21.7	15.9	19.5	12.6	8.8	7.1	6.2	4.7	2.7
31.....	5.5	.....	13.8	.....	17.5	.....	12.4	8.5	.....	6.0	.....	2.0
<b>Means.</b>	<b>6.4</b>	<b>5.9</b>	<b>8.2</b>	<b>15.2</b>	<b>15.7</b>	<b>18.6</b>	<b>17.1</b>	<b>10.3</b>	<b>8.0</b>	<b>6.3</b>	<b>5.1</b>	<b>3.7</b>

\*29.5 during day.

## DESCRIPTION OF RIVER GAGES, ETC.

## MOBILE RIVER SYSTEM—ETOWAH RIVER, CANTON, GA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	0.6	Frozen.	0.8	1.4	1.2	<sup>a</sup> 1.4	1.7	1.0	0.6	0.3	1.3	0.6
2.....	0.6		0.8	1.0	1.2	1.4	1.7	1.0	0.6	0.3	1.4	0.6
3.....	0.6		0.8	0.8	1.2	2.4	1.8	1.0	0.6	0.2	1.6	0.5
4.....	0.6	1.0	0.8	0.8	1.2	2.0	1.8	1.0	0.6	0.2	1.6	2.8
5.....	Frozen.	1.2	0.8	0.8	1.1	3.0	1.8	1.0	0.6	1.0	1.4	2.6
6.....		1.2	0.8	0.8	1.1	3.0	2.4	0.8	0.6	1.5	1.4	1.3
7.....	0.6	1.2	0.8	0.8	1.1	6.0	2.2	0.8	0.6	1.3	1.4	1.0
8.....	0.6	1.2	3.4	0.8	1.1	6.0	1.8	0.8	0.6	2.2	1.4	0.8
9.....	0.6	2.7	5.4	0.8	1.1	4.0	1.3	0.8	0.6	3.1	1.4	0.8
10.....	0.6	2.5	2.2	0.8	1.0		1.2	0.6	0.6	2.0	1.4	0.7
11.....	0.6	1.8	1.6	0.8	1.0		1.0	0.6	0.6	2.0	1.4	0.6
12.....	1.6	2.7	1.0	2.3	1.0		1.0	0.6	0.6	2.0	1.4	0.6
13.....	1.0	<sup>b</sup> 14.2	0.9	2.6	1.0		1.0	0.6	0.6	2.6	1.4	0.6
14.....	0.6	6.0	0.8	2.2	1.0		3.0	0.6	0.6	2.3	1.4	0.4
15.....	0.6	3.1	0.8	2.0	0.9		1.8	0.6	<sup>c</sup> 3.6	2.0	1.2	0.4
16.....	0.4	2.0	0.9	1.8	0.9		1.2	0.8	5.0	1.5	1.2	0.4
17.....	0.4	1.5	0.9	1.8	0.9		1.2	1.7	3.1	1.4	1.2	0.4
18.....	0.4	1.5	0.9	2.3	0.9		1.0	2.3	2.3	1.3	1.2	0.3
19.....	1.0	1.0	0.9	3.6	1.2		1.0	2.3	1.6	1.0	1.4	0.3
20.....	1.0	1.0	5.2	2.0	1.1		1.0	2.0	1.4	1.0	2.1	2.3
21.....	0.4	1.0	3.6	5.0	1.0		1.0	1.0	0.8	1.0	4.6	2.1
22.....	0.4	1.0	1.8	3.0	1.0		1.0	1.0	0.7	1.0	3.7	1.3
23.....	0.4	1.0	1.8	2.0	1.0		1.0	1.0	0.6	2.6	3.0	1.0
24.....	0.4	1.0	2.8	4.0	1.8		1.0	3.0	0.6	7.2	2.1	1.0
25.....	0.4	1.0	2.1	2.0	1.4		1.0	2.0	0.6	3.5	2.0	1.0
26.....	0.4	1.0	3.6	1.8	1.2		1.0	1.0	0.6	2.7	4.0	0.8
27.....	0.4	0.8	2.0	1.6	1.2		1.5	0.6	0.6	2.5	2.2	0.8
28.....	0.4	0.8	2.0	1.0	1.0		2.8	0.6	0.4	2.0	2.0	0.7
29.....	Frozen.		2.0	1.0	1.0		3.5	0.6	0.4	1.8	2.0	0.7
30.....			1.9	1.4	1.0		4.0	0.6	0.3	1.4	1.7	0.7
31.....	0.6		1.9		1.0		2.0	0.6		1.3		2.3
Means.	0.6	2.1	1.5	1.8	1.1		1.6	1.1	1.0	1.8	1.8	1.0
<b>1901</b>												
1.....	2.1	1.2	0.8	1.8	1.0	4.6	1.7	0.6	2.4	0.7	0.5	0.6
2.....	1.8	1.0	0.8	<sup>c</sup> 3.6	0.9	2.4	1.2	0.6	2.3	0.8	0.5	0.8
3.....	1.3	1.3	0.7	4.8	0.9	2.0	1.0	0.5	2.2	3.9	0.5	0.8
4.....	0.9	6.0	0.7	3.4	0.8	3.6	0.8	0.5	2.0	2.8	0.5	0.9
5.....	0.7	4.1	0.7	2.5	0.8	3.0	0.7	0.5	1.8	2.0	0.6	0.9
6.....	0.7	2.0	0.6	2.3	0.9	2.8	0.7	0.4	1.7	1.0	0.6	0.9
7.....	0.7	2.0	0.6	2.0	0.9	3.4	2.6	1.1	1.5	0.9	0.6	0.9
8.....	0.6	1.8	0.6	1.9	0.9	1.3	1.8	0.7	1.3	0.8	0.6	0.9
9.....	0.6	4.0	0.6	1.3	0.9	1.2	1.0	0.6	1.1	0.6	0.6	0.9
10.....	0.6	3.1	0.8	1.0	0.9	1.2	0.9	0.5	1.0	0.6	0.6	1.2
11.....	6.4	3.0	0.9	0.9	0.9	1.0	0.8	0.8	0.9	0.6	0.7	1.1
12.....	14.0	2.6	0.8	0.8	0.8	0.8	0.7	1.9	0.9	0.6	0.7	1.1
13.....	4.5	2.3	0.9	1.7	0.8	1.4	0.7	1.4	0.8	0.6	0.7	1.1
14.....	2.1	2.1	0.9	3.0	0.8	1.6	0.6	1.2	0.8	0.5	0.7	1.2
15.....	1.8	1.8	0.9	2.5	0.9	5.3	0.6	1.5	0.7	0.5	0.7	4.0
16.....	1.4	1.8	0.8	2.0	0.9	4.6	0.6	2.5	0.7	0.5	0.6	3.4
17.....	1.1	1.8	0.8	1.7	0.8	3.2	0.8	3.2	<sup>d</sup> 1.5	0.5	0.6	3.0
18.....	1.0	1.8	0.7	1.3	0.8	3.1	1.7	2.8	2.8	0.4	0.6	2.0
19.....	1.0	1.8	0.7	<sup>c</sup> 4.0	0.8	2.8	1.9	5.0	1.4	0.4	0.7	1.7
20.....	1.0	1.6	0.7	4.2	2.7	1.7	1.6	3.2	1.0	0.4	0.7	1.5
21.....	0.8	1.5	0.6	3.8	12.2	1.5	1.1	5.2	0.9	0.3	0.7	1.3
22.....	0.8	1.3	0.6	2.6	16.6	1.3	1.0	<sup>e</sup> 7.0	0.8	0.3	0.7	1.2
23.....	0.7	1.2	0.6	2.4	5.7	1.2	0.8	13.0	0.7	0.3	0.8	1.2
24.....	0.9	1.0	0.8	1.8	3.1	1.1	0.7	3.2	0.7	0.2	1.0	1.1
25.....	0.9	0.9	0.8	1.6	2.8	1.0	0.6	2.5	0.6	0.2	1.0	1.2
26.....	0.9	0.9	17.0	1.5	2.4	0.9	0.5	2.3	0.6	0.2	0.9	1.2
27.....	1.0	0.8	6.8	1.4	2.0	3.5	0.9	2.1	0.6	0.2	0.8	2.4
28.....	1.3	0.8	3.4	1.3	1.8	3.9	0.8	3.9	0.7	0.2	0.7	3.6
29.....	1.2		3.0	1.2	1.6	2.3	0.7	2.7	0.8	0.2	0.7	20.0
30.....	1.0		2.0	1.1	1.4	2.1	0.7	2.5	0.7	0.1	0.7	17.0
31.....	1.3		1.8		2.4		0.7	2.4		0.1		4.0
Means.	1.8	2.0	1.4	2.2	2.3	2.3	1.0	2.5	1.2	0.7	0.7	2.7

<sup>a</sup> U. S. Geological Survey records.  
<sup>b</sup> 15.8 at 3 p.m.

<sup>c</sup> 5.6 at 2 p.m.  
<sup>d</sup> 4.2 at 2 p.m.

<sup>e</sup> 13.5 at 2 p.m.  
<sup>f</sup> 20.0 at 2 p.m.

## DESCRIPTION OF RIVER GAGES, ETC.

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## MOBILE RIVER SYSTEM—ETOWAH RIVER, CANTON, GA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	3.7	5.6	10.8	2.8	0.5	0.4	0.4	0.5	0.8	2.8	0.6	2.7
2.....	3.3	11.8	4.3	2.4	1.0	0.6	0.4	0.5	0.8	1.8	0.5	4.0
3.....	3.0	5.4	3.1	2.1	1.1	0.6	0.3	0.5	1.2	0.8	0.5	4.2
4.....	2.9	3.1	3.0	1.8	1.0	0.3	0.4	0.5	1.2	0.8	0.5	2.1
5.....	2.8	2.7	2.8	1.6	0.9	0.3	0.4	0.4	1.4	0.8	0.5	2.8
6.....	2.5	2.3	2.8	1.5	0.8	0.3	0.4	0.4	1.4	0.6	0.8	1.8
7.....	2.2	2.2	2.5	1.4	0.7	0.3	0.4	0.4	1.0	0.6	0.7	1.2
8.....	2.0	2.1	2.1	1.4	0.7	1.3	0.4	0.4	1.0	0.6	0.7	1.1
9.....	1.9	2.0	1.9	1.3	0.6	2.0	0.4	0.4	1.0	0.8	0.6	1.1
10.....	1.7	1.8	1.8	1.3	0.5	1.8	0.4	1.0	1.0	0.8	0.7	1.0
11.....	1.6	1.6	1.7	1.3	0.6	1.0	0.3	1.0	1.0	0.7	0.7	0.9
12.....	1.6	1.5	1.7	1.2	0.9	1.0	0.4	1.2	0.8	0.7	0.8	0.9
13.....	1.5	1.3	1.6	1.1	0.6	1.0	0.3	1.0	0.8	0.7	0.8	0.8
14.....	1.5	1.2	1.5	1.0	0.6	1.0	0.3	0.8	0.8	0.7	0.8	0.8
15.....	1.4	1.2	1.4	1.0	0.5	1.0	0.4	0.8	0.8	0.5	0.8	0.8
16.....	1.4	1.1	1.8	1.0	0.5	1.0	0.4	0.8	1.8	0.5	0.9	1.7
17.....	1.4	1.0	3.1	1.0	0.5	2.4	0.6	0.8	1.0	0.5	0.9	1.6
18.....	1.4	1.2	2.4	2.4	0.5	2.0	0.6	0.8	1.0	0.7	0.9	1.6
19.....	1.5	1.2	1.7	1.7	0.4	1.0	0.7	0.6	1.0	0.9	1.0	1.6
20.....	1.7	1.0	1.6	1.3	0.5	1.0	0.6	0.6	0.8	0.9	0.9	1.5
21.....	1.7	0.9	1.6	1.0	0.5	1.0	0.6	0.6	0.8	0.8	0.8	1.5
22.....	1.7	0.7	1.5	0.8	0.4	0.8	0.5	0.6	0.8	0.8	0.8	1.5
23.....	1.6	0.7	1.5	0.7	0.4	0.8	0.8	0.6	0.6	0.8	0.7	1.5
24.....	1.9	0.6	1.5	0.7	0.4	0.6	0.8	0.6	3.0	0.8	0.6	1.4
25.....	2.0	0.5	1.5	0.6	0.4	0.5	0.8	0.6	1.0	0.8	2.1	1.4
26.....	1.9	0.5	1.4	0.6	0.4	0.5	0.7	0.4	1.0	0.8	4.3	3.5
27.....	2.0	0.5	1.4	0.6	0.5	0.5	0.8	0.4	1.0	0.8	3.1	3.6
28.....	3.0	a 18.8	2.5	0.6	0.3	0.4	0.8	0.4	0.8	0.8	2.5	3.6
29.....	3.8	.....	16.0	0.6	0.3	0.4	0.8	0.4	0.8	0.8	2.1	3.0
30.....	3.6	.....	5.4	0.6	0.3	0.4	0.8	0.8	0.8	0.8	2.2	3.0
31.....	3.4	.....	3.2	.....	0.3	.....	0.6	0.8	.....	0.8	.....	3.0
<b>Means.</b>	<b>2.2</b>	<b>2.7</b>	<b>2.9</b>	<b>1.2</b>	<b>0.6</b>	<b>0.9</b>	<b>0.5</b>	<b>0.6</b>	<b>1.0</b>	<b>0.8</b>	<b>1.1</b>	<b>2.0</b>
<b>1903<sup>b</sup></b>												
1.....	2.5	1.0	9.2	3.9	1.7	4.5	1.2	0.6	0.5	0.5	0.7	0.4
2.....	1.5	1.1	4.0	3.4	1.7	7.2	1.2	0.8	0.5	0.5	0.8	0.4
3.....	1.0	1.6	2.0	2.9	1.6	4.7	1.1	1.1	0.5	0.5	1.0	0.4
4.....	1.0	3.2	2.5	2.8	1.8	2.0	1.7	0.7	0.6	0.5	1.0	0.4
5.....	1.0	4.0	2.4	2.5	1.6	10.1	1.1	0.7	0.6	0.5	1.5	0.4
6.....	0.8	2.0	2.9	2.3	1.4	9.0	1.0	0.7	0.5	0.5	1.0	0.4
7.....	0.8	2.6	2.3	2.2	1.4	6.0	1.0	0.7	0.5	0.5	0.7	0.4
8.....	0.8	8.0	2.5	3.4	1.4	2.5	1.3	0.6	0.5	0.5	0.5	0.4
9.....	0.8	4.2	2.6	3.4	1.4	2.5	1.2	0.6	0.5	0.9	0.5	0.4
10.....	0.7	2.5	3.5	2.5	.....	2.6	1.2	0.6	0.4	0.6	0.5	0.4
11.....	2.8	7.0	11.0	2.2	.....	2.5	1.2	0.6	0.4	0.6	0.5	0.4
12.....	2.0	6.2	5.5	2.2	.....	2.0	1.2	0.7	0.4	0.6	0.5	0.4
13.....	1.8	3.1	3.5	5.2	.....	1.6	4.7	0.7	0.4	0.6	0.5	0.5
14.....	1.8	2.1	2.9	6.0	.....	1.5	2.7	0.7	0.4	0.6	0.5	0.5
15.....	1.6	2.8	2.5	3.2	.....	1.3	2.0	2.5	1.0	0.6	0.5	0.4
16.....	1.6	9.9	2.3	2.5	.....	1.2	2.0	1.0	1.9	0.6	0.5	0.4
17.....	1.4	17.7	2.2	2.4	.....	1.2	2.0	1.0	0.8	0.8	0.5	0.4
18.....	1.4	5.1	2.0	2.3	.....	1.2	1.9	1.0	0.7	1.0	0.8	0.4
19.....	1.3	3.2	1.9	2.1	.....	1.2	1.7	1.0	0.5	0.8	0.6	0.4
20.....	1.3	2.5	1.8	2.1	.....	1.1	1.6	0.9	0.5	0.8	0.6	0.5
21.....	1.3	2.4	5.5	2.2	1.1	1.1	1.6	0.8	0.5	0.7	0.5	0.4
22.....	1.8	2.1	3.3	2.1	1.1	1.0	1.4	0.8	0.5	0.7	0.5	0.4
23.....	1.6	2.0	13.0	2.0	1.0	1.0	1.2	0.7	0.5	0.6	0.5	0.4
24.....	1.4	1.7	6.7	1.8	0.9	1.0	1.0	0.6	0.5	0.6	0.5	0.4
25.....	1.2	1.5	5.5	1.7	0.9	1.0	0.9	0.5	0.5	0.6	0.5	0.6
26.....	1.2	1.6	3.0	2.3	0.9	1.0	0.8	0.5	0.5	0.6	0.5	0.5
27.....	1.2	1.5	2.6	1.8	0.9	1.1	0.7	0.5	0.5	0.7	0.5	0.5
28.....	1.2	1.5	2.4	1.7	0.9	3.0	0.7	0.5	0.5	0.7	0.5	0.6
29.....	1.2	.....	2.9	1.7	0.9	1.7	0.7	0.4	0.5	0.7	0.4	0.6
30.....	1.0	.....	12.2	1.7	1.8	1.5	0.6	0.4	0.5	0.7	0.4	0.5
31.....	1.0	.....	5.5	.....	.....	.....	0.6	0.4	.....	0.7	.....	0.5
<b>Means.</b>	<b>1.4</b>	<b>4.2</b>	<b>4.3</b>	<b>2.6</b>	<b>1.3</b>	<b>2.6</b>	<b>1.4</b>	<b>0.8</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>	<b>0.4</b>

<sup>a</sup> 19.8 at 2 p.m.<sup>b</sup> February, March, and April U. S. Geological Survey Record.

## DESCRIPTION OF RIVER GAGES, ETC.

## MOBILE RIVER SYSTEM—ETOWAH RIVER, CANTON, GA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	0.4	0.6	0.7	0.6	0.5	1.3	0.5	0.5	0.1	-0.4	0.0	0.4
2.....	0.4	0.6	0.7	0.6	0.4	0.6	0.4	1.2	0.1	-0.5	0.1	0.4
3.....	0.4	0.6	0.9	0.6	0.3	0.3	0.3	1.2	0.1	-0.3	0.2	0.4
4.....	0.4	0.6	0.7	0.4	0.3	0.1	0.2	0.5	0.3	-0.3	0.3	0.5
5.....	0.4	0.6	0.7	0.4	0.3	0.0	0.6	2.5	0.3	-0.4	0.4	0.8
6.....	0.4	0.6	0.7	0.4	0.2	0.0	0.4	0.8	0.3	-0.3	0.3	2.0
7.....	0.5	0.7	2.1	0.7	0.2	0.5	0.2	0.4	0.1	-0.3	0.2	0.8
8.....	0.5	1.6	1.7	1.0	0.8	0.2	0.3	8.0	0.0	-0.5	0.2	0.6
9.....	0.5	1.0	0.9	0.9	1.1	0.0	0.1	4.0	0.0	-0.4	0.2	0.6
10.....	0.5	0.6	0.8	0.8	0.6	-0.1	0.0	1.0	0.0	-0.4	0.2	0.5
11.....	0.6	0.6	0.8	0.7	0.3	-0.1	0.0	0.8	-0.1	-0.3	0.2	0.6
12.....	0.6	0.6	0.8	0.7	0.3	-0.1	0.2	1.1	-0.1	-0.3	0.2	0.5
13.....	0.6	0.7	0.8	0.6	0.3	-0.1	0.8	0.8	-0.2	-0.4	0.4	0.4
14.....	0.6	0.7	2.0	0.5	0.3	-0.2	0.3	0.5	-0.1	-0.3	0.6	0.4
15.....	0.5	0.7	1.2	0.5	0.3	-0.2	0.1	0.4	-0.3	-0.4	0.4	0.4
16.....	0.5	0.7	0.8	0.5	0.2	-0.2	0.0	0.3	-0.3	-0.3	0.3	0.4
17.....	1.1	0.7	0.8	0.5	0.2	-0.2	0.5	0.3	-0.3	-0.3	0.3	0.4
18.....	0.9	0.6	0.7	0.5	0.2	-0.2	0.2	0.2	-0.3	-0.3	0.3	0.4
19.....	0.7	0.8	0.7	0.5	0.2	-0.3	0.4	0.1	-0.3	-0.3	0.3	0.4
20.....	0.6	2.5	0.6	0.5	0.1	-0.3	0.0	0.2	-0.3	-0.3	0.3	0.4
21.....	0.5	1.2	0.6	0.5	0.1	0.2	0.0	0.2	-0.3	-0.3	0.3	0.4
22.....	0.7	2.6	1.2	0.6	0.0	0.1	-0.1	0.0	-0.3	-0.2	0.4	0.5
23.....	1.7	1.0	0.6	0.5	0.0	-0.2	0.1	-0.1	-0.3	-0.1	0.7	0.5
24.....	1.0	1.0	0.6	0.4	0.0	-0.3	0.1	0.7	-0.4	-0.2	0.5	0.5
25.....	0.7	0.8	0.8	0.4	0.0	0.1	0.0	0.5	-0.4	-0.1	0.4	0.6
26.....	0.7	0.8	0.8	0.5	-0.1	0.0	0.1	0.3	-0.4	0.0	0.3	0.6
27.....	0.7	0.7	0.8	0.5	-0.1	-0.1	-0.1	0.4	-0.4	0.0	0.3	0.6
28.....	0.7	0.6	0.7	0.5	-0.2	0.1	0.0	0.3	-0.2	0.0	0.3	2.5
29.....	0.8	0.6	0.7	0.5	-0.3	0.6	0.0	0.1	-0.2	0.0	0.3	1.0
30.....	0.7	.....	0.7	0.5	-0.3	3.8	0.0	0.1	-0.3	0.0	0.3	0.7
31.....	0.7	.....	0.6	.....	1.3	.....	0.0	0.0	.....	0.0	.....	0.6
Means.	0.6	0.9	0.9	0.6	0.2	0.2	0.2	0.9	-0.1	-0.3	0.3	0.6

## MOBILE RIVER SYSTEM—OOSTANAULA RIVER, RESACA, GA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	2.7	3.1	6.0	5.8	6.8	3.7	10.6	.....	.....	.....	2.8	4.5
2.....	Frozen.	3.0	7.3	5.4	5.7	3.8	.....	.....	.....	.....	2.9	4.2
3.....	.....	3.0	6.8	5.3	5.5	4.0	.....	.....	.....	.....	3.0	4.0
4.....	.....	3.1	5.9	5.6	5.3	5.5	.....	.....	.....	.....	4.6	6.0
5.....	.....	4.3	5.4	6.3	4.8	5.0	.....	.....	.....	.....	4.5	8.6
6.....	.....	4.2	5.1	6.0	4.6	7.7	.....	.....	.....	.....	3.7	8.3
7.....	2.7	3.7	6.9	5.2	4.4	7.9	.....	.....	.....	.....	3.5	6.0
8.....	2.6	3.5	11.3	5.0	4.0	13.0	.....	.....	.....	.....	3.0	5.6
9.....	2.4	5.6	15.5	4.8	3.9	10.8	.....	.....	.....	.....	2.9	5.0
10.....	2.5	9.1	14.2	4.6	3.8	7.5	.....	.....	.....	.....	2.8	4.8
11.....	4.2	7.3	11.1	7.2	3.7	5.6	.....	.....	.....	.....	2.8	4.2
12.....	11.3	6.2	7.6	11.6	3.6	5.8	.....	.....	.....	.....	2.8	4.0
13.....	11.3	19.7	6.7	9.8	3.6	6.8	.....	.....	.....	.....	2.7	4.0
14.....	9.9	22.7	6.0	7.4	3.4	6.6	.....	.....	.....	.....	2.7	4.0
15.....	6.1	23.5	5.6	6.2	3.4	5.6	.....	.....	.....	.....	2.7	4.0
16.....	4.9	20.8	7.3	5.8	3.4	4.8	.....	.....	.....	.....	2.7	3.9
17.....	4.3	13.7	6.9	6.8	3.3	6.6	.....	.....	.....	.....	2.6	3.5
18.....	4.1	6.5	5.9	11.9	3.3	6.8	.....	.....	.....	.....	2.6	3.4
19.....	6.1	5.5	6.0	12.0	3.8	10.9	.....	.....	.....	.....	2.6	3.4
20.....	13.1	5.2	16.9	10.4	3.9	7.0	.....	.....	.....	.....	2.7	3.8
21.....	12.1	5.3	17.2	11.8	3.8	6.5	.....	.....	.....	.....	2.8	10.9
22.....	10.2	9.1	13.8	11.6	3.7	4.8	.....	.....	.....	.....	3.6	9.3
23.....	6.0	8.9	8.8	9.7	3.6	9.9	.....	.....	.....	.....	3.4	6.8
24.....	5.2	7.3	7.7	7.7	3.7	12.8	.....	.....	.....	.....	3.3	9.0
25.....	4.8	7.0	8.0	7.2	3.7	14.0	.....	.....	.....	.....	3.7	8.7
26.....	4.4	6.7	12.2	6.2	4.0	15.0	.....	.....	.....	.....	14.4	6.7
27.....	4.0	6.0	10.8	5.8	4.0	17.2	.....	.....	.....	.....	13.0	5.6
28.....	3.7	5.5	8.3	5.6	3.7	17.7	.....	.....	.....	.....	12.2	4.6
29.....	3.6	.....	7.2	5.5	3.6	13.0	.....	.....	.....	.....	7.6	5.4
30.....	3.5	.....	6.6	7.8	3.6	9.6	.....	.....	.....	.....	5.2	5.2
31.....	3.4	.....	6.2	.....	3.4	.....	.....	.....	.....	.....	.....	7.7
Means.	5.7	8.2	8.7	7.4	4.0	8.4	.....	.....	.....	.....	4.3	5.6



## MOBILE RIVER SYSTEM—OOSTANAULA RIVER, RESACA, GA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	9.4	8.4	4.0	8.3								2.9
2.....	7.6	6.9	4.0	9.3								2.8
3.....	6.0	6.4	4.0	14.2								3.2
4.....	5.6	15.7	4.0	13.2								4.2
5.....	5.0	16.1	4.0	11.7								4.0
6.....	4.6	12.7	4.4	8.3								3.5
7.....	4.0	8.4	4.5	7.6								3.6
8.....	4.0	7.2	4.2	6.8								3.4
9.....	4.0	12.2	4.4	6.4								3.4
10.....	4.0	13.4	9.2	6.2								4.0
11.....	11.6	9.0	12.0	5.7								4.5
12.....	21.8	8.0	10.9	5.6								4.3
13.....	25.7	7.2	8.4	5.6							3.3	3.9
14.....	26.7	6.6	6.2	11.6							3.0	4.0
15.....	24.0	6.4	5.6	10.6							3.1	19.7
16.....	18.8	5.9	5.2	7.9							3.0	22.4
17.....	8.9	5.8	5.0	6.8							2.9	22.8
18.....	6.8	5.8	4.8	6.4							2.8	20.0
19.....	6.0	5.6	4.7	12.8							2.9	9.6
20.....	5.8	5.4	4.7	19.8							3.3	5.3
21.....	5.4	5.2	5.2	20.8							3.4	4.8
22.....	5.4	5.0	5.0	20.7							3.3	4.1
23.....	5.2	4.8	4.8	18.0							3.0	4.3
24.....	6.0	4.8	5.2	9.6							3.9	6.1
25.....	9.1	4.6	5.8	7.7							3.7	6.0
26.....	7.8	4.5	21.2	6.9							3.5	5.4
27.....	6.4	4.4	25.4	6.6							3.2	8.9
28.....	6.8	4.3	25.8	6.2							3.1	10.2
29.....	6.4		23.2	6.0							3.0	19.3
30.....	6.7		17.2	5.8							2.9	23.8
31.....	9.7		9.6									<sup>a</sup> 26.6
<b>Means.</b>	<b>9.2</b>	<b>7.5</b>	<b>8.5</b>	<b>9.8</b>							<b>3.2</b>	<b>8.7</b>
<b>1902</b>												
1.....	25.7	14.2	24.2	14.0							1.6	3.0
2.....	22.5	18.3	25.4	7.9							1.6	3.4
3.....	15.5	19.8	23.1	7.2							1.6	9.9
4.....	7.8	16.5	17.1	6.7							1.6	8.4
5.....	6.6	10.6	10.6	6.7							1.6	6.4
6.....	5.8	7.8	11.8	6.4							1.8	5.6
7.....	5.6	7.2	11.7	6.5							2.6	4.6
8.....	5.6	6.8	9.2	9.4							2.1	4.0
9.....	5.5	6.4	9.3	9.6							1.9	3.6
10.....	5.3	6.2	9.0	7.6							1.9	3.0
11.....	5.2	5.9	8.2	6.8							1.8	3.0
12.....	5.0	5.8	7.6	6.4							1.8	2.9
13.....	4.7	5.4	7.5	6.0							1.8	2.8
14.....	4.6	5.3	7.0	5.8							1.8	2.8
15.....	4.5	5.4	6.4	5.8							1.7	2.7
16.....	4.5	5.6	7.4	5.7							1.7	3.0
17.....	4.6	6.2	13.1	5.4							1.7	7.8
18.....	4.5	6.1	12.0	6.2							3.4	6.5
19.....	4.6	5.7	8.5	5.4							2.9	5.7
20.....	5.3	5.6	7.2	5.3							2.5	4.0
21.....	5.5	6.0	6.8	5.2							2.4	5.0
22.....	7.3	7.7	6.6	5.1							2.2	11.2
23.....	7.2	7.6	6.3	4.8							2.1	9.4
24.....	5.7	6.8	6.0	4.8							2.0	6.2
25.....	5.5	6.4	5.8	4.8							2.4	4.2
26.....	5.2	7.2	5.7	4.7							8.5	4.0
27.....	5.0	7.4	5.6	4.7							6.6	3.9
28.....	7.0	<sup>b</sup> 20.0	6.1	4.6							4.2	3.9
29.....	8.6		16.1	4.5							3.2	3.9
30.....	7.8		20.8	4.5							2.8	4.9
31.....	10.1		18.9									5.0
<b>Means.</b>	<b>7.4</b>	<b>8.6</b>	<b>11.0</b>	<b>6.3</b>							<b>2.5</b>	<b>5.0</b>

<sup>a</sup>26.8 at 2 p. m.<sup>b</sup>21.3 at 2 p. m.

## MOBILE RIVER SYSTEM—OOSTANAULA RIVER, RESACA, GA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	4.5	4.0	25.8	23.8	5.0	6.8	3.0	4.0	2.2	1.6	2.0	1.6
2.....	4.2	4.1	27.3	20.6	5.0	9.9	3.4	4.6	2.1	1.6	2.0	1.6
3.....	6.8	7.6	25.2	13.5	4.9	10.6	3.6	5.4	2.1	1.6	2.0	1.4
4.....	8.7	11.5	20.5	9.0	4.9	10.3	3.6	4.0	2.1	1.6	2.2	1.4
5.....	6.4	16.2	10.6	8.5	5.0	9.5	3.6	8.0	2.1	1.6	3.4	1.4
6.....	5.2	13.6	10.4	6.8	4.9	10.0	3.4	7.4	2.2	1.6	3.4	1.4
7.....	4.9	11.3	9.4	6.8	4.7	8.0	3.4	5.2	2.1	1.6	2.2	1.4
8.....	4.8	15.4	8.9	7.6	4.7	7.2	3.4	3.8	2.0	1.8	2.0	1.4
9.....	4.4	16.0	11.6	10.5	4.7	5.7	3.8	3.4	2.0	2.6	2.0	1.4
10.....	3.9	13.7	13.4	8.7	4.7	5.0	3.8	3.4	2.0	2.4	2.0	1.4
11.....	4.0	13.8	13.8	7.4	4.6	8.0	4.2	3.4	2.0	2.2	1.8	1.8
12.....	9.4	17.2	15.0	6.8	4.6	7.2	5.2	3.6	2.0	2.0	1.8	1.8
13.....	7.7	15.6	10.3	6.9	4.6	5.6	9.9	3.2	1.8	1.8	1.8	1.8
14.....	5.7	11.6	9.2	14.1	4.6	4.8	9.0	3.0	1.8	1.6	1.8	2.0
15.....	4.7	8.3	9.0	11.8	4.7	4.8	6.8	5.0	1.8	1.6	2.0	2.0
16.....	4.6	8.4	8.2	9.4	4.7	4.6	5.8	5.2	2.0	1.6	2.0	2.0
17.....	4.4	18.8	7.6	8.4	4.1	4.6	4.4	3.8	2.2	1.8	2.4	2.0
18.....	4.2	21.5	7.2	7.0	4.0	4.4	4.2	3.8	2.2	3.0	4.0	2.0
19.....	4.0	19.2	6.8	6.8	4.0	4.0	4.0	3.8	2.2	2.8	4.0	2.0
20.....	4.0	15.4	6.4	6.6	3.9	3.8	3.8	3.8	2.0	2.6	3.2	2.5
21.....	3.8	8.2	6.8	6.8	3.9	3.6	3.6	3.5	1.8	2.4	2.6	3.2
22.....	3.8	7.2	9.0	6.6	3.9	3.6	4.4	3.4	1.8	1.8	2.4	3.5
23.....	3.6	6.4	15.4	6.2	3.7	3.5	4.8	3.4	1.6	1.8	2.2	2.8
24.....	3.6	6.0	19.6	5.8	3.6	3.6	3.8	3.2	1.6	1.8	2.0	2.4
25.....	3.6	5.4	17.5	5.6	3.5	3.6	3.6	2.8	1.6	1.8	1.8	2.2
26.....	3.6	5.4	11.0	6.0	3.4	3.4	3.4	2.6	1.6	1.8	1.8	2.5
27.....	3.6	5.0	8.1	5.7	3.4	6.2	3.3	2.4	1.6	1.6	1.6	2.6
28.....	3.9	20.6	7.4	5.5	3.3	7.4	3.2	2.3	1.6	1.6	1.6	2.2
29.....	6.0	.....	7.6	5.4	3.3	5.8	3.0	2.3	1.6	1.6	1.6	2.2
30.....	5.5	.....	18.5	5.0	4.7	4.4	3.0	2.2	1.6	1.6	1.6	2.0
31.....	4.7	.....	23.3	.....	5.9	.....	4.4	2.2	.....	1.8	.....	2.0
<b>Means.</b>	<b>4.9</b>	<b>11.7</b>	<b>12.9</b>	<b>8.7</b>	<b>4.4</b>	<b>6.0</b>	<b>4.3</b>	<b>3.8</b>	<b>1.9</b>	<b>1.9</b>	<b>2.2</b>	<b>2.0</b>
<b>1904</b>												
1.....	2.0	3.0	3.8	4.6	2.4	6.0	3.2	3.2	1.8	0.9	0.8	2.5
2.....	2.0	2.8	3.6	4.6	2.0	4.8	2.6	3.2	1.6	0.9	0.8	3.7
3.....	2.0	2.8	3.6	4.2	2.0	4.0	2.2	3.4	1.6	0.9	0.8	5.0
4.....	2.0	2.8	5.0	4.0	2.2	3.0	2.0	3.6	1.6	0.9	1.2	4.8
5.....	2.0	2.8	4.0	4.0	2.2	2.8	2.0	4.0	1.6	0.9	1.2	3.8
6.....	1.8	2.8	3.8	3.7	2.2	2.8	2.0	4.2	2.2	0.9	1.0	8.0
7.....	1.8	2.8	4.2	3.6	2.0	4.8	2.0	3.6	2.0	0.9	1.0	6.8
8.....	1.8	4.2	7.4	6.0	3.2	3.2	1.8	4.0	1.8	0.9	1.0	4.0
9.....	1.8	5.4	6.4	9.6	6.0	3.0	1.8	4.4	1.6	1.0	1.0	3.0
10.....	2.0	4.2	5.0	7.6	4.8	2.6	1.8	3.2	1.6	1.0	1.0	2.8
11.....	2.0	4.4	5.0	5.6	4.0	2.4	1.8	4.6	1.4	1.0	1.0	2.8
12.....	2.4	4.4	5.2	5.0	3.6	2.4	1.8	3.6	1.4	1.0	1.0	2.6
13.....	2.4	4.0	5.0	4.2	3.6	2.2	2.2	3.2	1.4	1.0	1.0	2.4
14.....	2.5	3.6	6.1	3.8	3.4	2.2	2.4	3.0	1.4	1.0	1.4	2.4
15.....	2.5	3.2	10.0	3.4	3.4	2.2	2.0	3.0	1.3	1.0	1.4	2.2
16.....	2.5	3.0	7.8	3.6	3.0	2.0	1.8	3.0	1.3	1.0	1.4	2.2
17.....	3.4	3.0	5.8	3.8	3.0	2.0	2.4	3.0	1.2	1.0	1.3	2.0
18.....	4.0	3.0	5.0	3.8	2.8	2.0	2.2	2.8	1.2	1.0	1.3	2.0
19.....	3.6	3.0	4.6	2.8	2.6	2.0	2.2	2.6	1.1	1.0	1.2	2.0
20.....	3.4	6.8	4.4	2.6	2.6	2.2	2.0	2.4	1.1	1.0	1.2	1.8
21.....	2.8	6.0	5.5	2.6	2.4	2.5	1.8	2.2	1.1	1.0	1.2	1.8
22.....	3.4	7.5	8.5	2.6	2.4	2.8	1.8	2.0	1.0	1.0	1.2	1.6
23.....	10.2	11.0	10.7	2.6	2.2	2.6	1.6	2.0	1.0	0.9	1.3	1.6
24.....	9.0	9.5	12.5	2.6	2.2	2.2	3.4	1.8	0.9	0.9	1.3	1.4
25.....	5.8	6.4	11.5	2.4	2.0	2.0	2.8	1.8	0.8	0.9	1.4	2.0
26.....	3.8	5.0	10.0	2.6	2.0	2.0	2.4	1.6	0.8	0.9	1.5	2.2
27.....	3.4	4.6	7.4	4.8	2.0	1.8	1.8	1.6	0.7	0.9	1.5	2.6
28.....	3.0	4.0	7.8	4.2	2.0	1.8	2.4	2.2	0.9	0.9	1.5	10.2
29.....	3.2	4.0	7.5	3.6	2.0	2.2	2.2	2.0	0.8	0.8	1.5	10.2
30.....	3.0	.....	6.8	2.8	2.0	3.2	2.6	2.0	0.8	0.8	1.5	6.4
31.....	3.0	.....	5.2	.....	5.0	.....	2.6	2.0	.....	0.8	.....	4.0
<b>Means.</b>	<b>3.2</b>	<b>4.5</b>	<b>6.4</b>	<b>4.0</b>	<b>2.8</b>	<b>2.7</b>	<b>2.2</b>	<b>2.9</b>	<b>1.3</b>	<b>0.9</b>	<b>1.2</b>	<b>3.6</b>

## DESCRIPTION OF RIVER GAGES, ETC.

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## MOBILE RIVER SYSTEM—COOSA RIVER, ROME, GA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	2.0	2.0	4.2	4.4	6.2	2.8	10.5	3.4	1.5	1.2	2.1	3.2
2.....	1.6	1.8	5.8	4.2	4.8	2.5	8.0	3.2	1.5	1.2	2.2	2.8
3.....	1.5	1.6	5.6	4.0	4.0	2.8	8.0	3.0	1.7	1.0	2.0	2.6
4.....	1.5	2.0	4.4	4.0	4.0	4.2	7.0	2.8	1.7	1.0	2.3	3.5
5.....	1.5	3.0	4.1	4.0	3.8	4.2	5.5	2.6	1.5	0.9	2.3	7.4
6.....	1.5	3.8	3.8	4.0	3.7	4.2	4.2	2.5	1.5	0.9	2.1	6.8
7.....	1.5	2.8	5.0	3.8	3.6	4.8	3.8	2.2	1.4	0.9	2.1	5.2
8.....	1.5	2.4	8.2	3.8	3.4	13.0	3.8	2.2	1.0	3.8	2.0	3.8
9.....	1.5	4.0	15.0	3.6	3.0	12.6	4.0	2.0	1.0	5.9	1.9	3.6
10.....	1.5	6.9	13.0	3.5	3.0	8.0	4.3	2.0	0.8	2.6	1.8	3.2
11.....	2.0	7.0	10.3	6.0	3.0	5.9	3.8	1.8	0.8	2.0	1.8	2.8
12.....	7.0	6.4	7.5	11.0	3.0	5.0	3.4	1.8	0.8	1.8	1.6	2.6
13.....	9.0	22.6	5.5	7.4	2.5	5.2	3.8	1.8	0.8	2.5	1.5	2.6
14.....	7.2	27.2	4.8	5.5	2.4	5.3	3.4	1.7	0.8	3.2	1.5	2.4
15.....	5.5	25.3	4.2	4.5	2.4	4.9	3.4	2.0	6.5	3.0	1.5	2.2
16.....	3.5	21.2	5.3	5.6	2.4	3.8	3.3	1.7	11.1	2.0	1.5	2.2
17.....	3.0	18.0	5.6	6.2	2.4	4.8	3.1	1.6	7.0	1.6	1.5	2.2
18.....	2.9	10.7	4.5	11.0	2.4	6.0	3.0	1.8	3.2	1.5	1.4	2.0
19.....	5.0	5.0	5.2	11.1	2.9	6.5	2.8	2.2	2.3	1.5	1.4	2.0
20.....	11.3	4.0	15.9	11.4	3.0	7.2	2.6	2.0	2.0	1.4	1.6	2.8
21.....	10.6	4.1	17.5	13.6	2.6	4.2	2.5	1.6	1.8	1.3	1.8	6.7
22.....	8.5	6.8	14.6	12.7	2.5	3.6	2.4	1.6	1.8	1.3	2.1	8.0
23.....	5.8	7.6	10.4	10.5	2.3	5.5	2.4	1.6	1.6	2.9	2.1	7.0
24.....	4.0	6.0	7.2	8.6	2.9	14.2	2.4	1.9	1.6	12.5	2.0	6.6
25.....	3.4	5.8	8.8	8.5	3.2	18.2	3.6	2.4	1.5	10.2	5.0	6.6
26.....	3.1	5.2	13.0	6.5	2.7	17.0	2.8	2.0	1.5	4.0	11.0	5.6
27.....	2.8	4.6	12.1	5.3	2.6	15.5	6.2	1.8	1.4	2.9	11.5	4.0
28.....	2.6	4.0	8.9	4.8	2.5	15.6	6.8	1.6	1.4	2.2	8.6	3.8
29.....	2.4	.....	5.8	4.3	2.4	14.2	6.2	1.5	1.3	2.2	7.0	3.6
30.....	2.1	.....	5.7	6.0	2.9	10.0	4.5	1.5	1.3	2.1	4.0	3.5
31.....	2.0	.....	5.3	.....	3.0	.....	4.0	1.5	.....	2.1	.....	5.6
<b>Means.</b>	<b>3.8</b>	<b>7.9</b>	<b>8.0</b>	<b>6.7</b>	<b>3.1</b>	<b>7.7</b>	<b>4.4</b>	<b>2.0</b>	<b>2.1</b>	<b>2.7</b>	<b>3.0</b>	<b>4.1</b>
<b>1901</b>												
1.....	7.4	6.4	3.0	8.8	4.0	10.6	3.6	1.8	6.4	2.6	1.2	1.3
2.....	6.4	5.8	3.0	8.6	3.8	7.6	3.0	1.8	5.8	2.6	1.2	1.3
3.....	5.2	5.5	3.0	13.0	3.8	5.6	3.0	1.8	3.7	3.2	1.2	1.3
4.....	4.2	15.8	3.0	13.0	3.8	6.4	2.6	1.6	3.4	3.0	1.2	1.5
5.....	4.0	18.0	3.0	10.0	3.6	5.0	2.4	1.6	3.0	2.8	1.2	2.0
6.....	3.8	13.8	3.0	7.9	3.5	4.0	2.2	2.6	2.9	2.2	1.2	1.8
7.....	3.5	9.5	3.0	6.4	3.5	7.0	5.2	5.3	2.6	2.0	1.2	1.8
8.....	3.2	6.5	3.0	5.6	3.4	7.6	4.8	5.9	2.2	1.9	1.1	1.8
9.....	3.0	9.6	2.8	5.2	3.3	5.4	3.3	3.0	2.0	1.9	1.1	1.8
10.....	2.8	12.5	5.5	4.5	3.1	4.3	2.6	2.6	2.0	1.8	1.1	1.8
11.....	8.8	10.5	7.8	4.3	3.0	4.0	2.4	2.5	2.0	1.7	1.0	2.6
12.....	23.5	7.6	8.0	4.2	2.9	3.8	2.3	3.4	2.0	1.6	1.0	2.6
13.....	27.0	6.5	6.7	4.3	2.8	3.8	2.0	3.0	1.8	1.8	1.0	2.1
14.....	23.8	5.6	4.8	10.4	2.8	4.0	2.0	2.3	2.0	2.0	1.0	2.2
15.....	21.4	5.0	4.0	10.1	2.7	4.3	2.0	4.5	3.0	3.2	1.0	16.4
16.....	19.8	4.8	3.6	7.7	2.6	6.9	1.9	7.2	2.4	2.6	1.0	17.6
17.....	17.4	4.2	3.2	5.8	2.6	6.0	1.7	10.5	6.0	2.4	1.0	14.7
18.....	8.9	4.2	3.0	5.2	2.5	5.0	5.5	9.8	11.2	2.4	1.0	14.0
19.....	5.0	4.2	3.0	9.0	2.5	4.8	3.0	10.8	11.1	2.0	1.0	13.0
20.....	4.0	4.0	3.0	18.6	3.0	4.0	3.0	12.5	7.0	1.8	1.0	5.6
21.....	3.8	3.8	3.0	17.2	10.0	3.8	2.4	10.8	3.9	1.8	1.6	3.0
22.....	3.8	3.7	3.0	15.5	23.6	3.6	2.4	14.5	3.7	1.6	1.2	2.0
23.....	3.8	3.6	3.0	14.6	26.4	3.6	2.4	20.8	3.3	1.6	1.4	2.0
24.....	3.8	3.6	3.6	12.6	21.8	3.6	2.0	23.2	2.8	1.6	1.4	3.6
25.....	6.7	3.5	3.6	6.8	18.9	2.7	2.0	18.3	2.6	1.6	1.3	4.0
26.....	6.6	3.2	22.0	5.6	16.5	2.7	1.9	13.1	2.5	1.4	1.3	3.7
27.....	5.4	3.2	27.0	4.8	11.1	3.2	1.7	6.6	2.3	1.3	1.3	5.7
28.....	5.2	3.0	24.5	4.4	5.5	3.0	2.8	8.8	2.0	1.3	1.3	6.0
29.....	5.0	.....	21.3	4.2	4.9	3.6	1.9	7.5	2.0	1.3	1.3	21.5
30.....	4.6	.....	19.2	4.1	4.7	3.6	1.9	6.2	2.5	1.3	1.3	29.8
31.....	6.8	.....	16.1	.....	5.4	.....	1.6	5.6	.....	1.2	.....	32.6
<b>Means.</b>	<b>8.3</b>	<b>6.7</b>	<b>7.3</b>	<b>8.4</b>	<b>6.8</b>	<b>4.8</b>	<b>2.6</b>	<b>7.4</b>	<b>3.7</b>	<b>2.0</b>	<b>1.2</b>	<b>7.1</b>

## DESCRIPTION OF RIVER GAGES, ETC.

## MOBILE RIVER SYSTEM—COOSA RIVER, ROME, GA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	28.0	11.8	28.5	21.3	2.9	1.8	1.0	1.2	1.0	1.6	0.2	1.9
2.....	24.6	22.0	27.6	14.8	2.9	1.7	1.0	1.0	0.8	1.6	0.2	2.0
3.....	21.9	24.0	24.1	7.2	3.7	1.7	1.1	0.8	1.2	1.6	0.2	6.2
4.....	17.6	20.0	21.6	5.8	3.4	1.7	1.0	0.8	1.0	1.5	0.2	6.8
5.....	6.6	15.6	19.2	5.7	3.2	1.7	0.9	1.5	1.2	1.0	0.2	5.8
6.....	5.6	9.8	14.0	5.2	3.0	1.7	0.9	1.4	1.0	2.0	0.4	5.0
7.....	4.6	6.3	10.1	6.7	2.9	1.7	1.0	1.2	0.8	1.4	2.0	4.0
8.....	4.2	5.7	8.7	6.7	2.8	1.7	0.9	1.2	0.6	0.9	1.6	2.7
9.....	4.0	5.0	7.2	7.7	2.6	2.0	0.9	0.6	0.9	0.8	1.0	2.5
10.....	3.9	4.6	7.0	6.6	2.6	1.9	0.9	0.4	1.0	0.7	0.8	1.9
11.....	3.6	4.4	6.6	5.6	2.5	1.9	0.9	0.3	0.9	2.3	0.8	1.6
12.....	3.5	4.0	6.0	5.0	2.4	1.8	1.4	0.3	0.7	2.2	0.7	1.4
13.....	3.4	3.9	5.6	4.7	2.3	1.7	1.5	1.0	0.6	2.2	0.6	1.2
14.....	3.2	3.8	5.5	4.5	2.3	1.7	1.8	0.6	2.5	2.0	0.6	1.2
15.....	3.0	3.8	5.0	4.4	2.3	1.6	1.4	0.6	1.9	1.8	0.6	1.1
16.....	2.8	4.0	7.0	4.3	2.4	1.6	2.0	0.8	1.0	1.6	0.6	2.4
17.....	2.7	4.5	14.0	4.5	2.5	1.6	1.4	0.6	0.7	1.5	0.6	4.3
18.....	2.7	4.7	11.6	5.7	2.3	1.5	1.2	0.5	0.4	1.3	0.9	4.5
19.....	3.0	4.5	8.6	5.0	2.3	1.5	1.0	0.4	0.4	1.1	1.5	3.8
20.....	3.2	4.0	6.2	4.0	2.4	1.9	1.0	1.0	0.4	0.9	1.3	3.0
21.....	3.6	4.0	5.6	3.9	2.4	1.6	0.9	1.3	1.0	0.8	1.1	4.9
22.....	4.2	5.0	5.1	3.8	2.3	1.8	0.8	1.0	0.8	0.7	1.1	5.8
23.....	5.0	5.6	5.0	3.7	2.3	1.5	0.8	0.9	0.6	0.6	1.0	5.8
24.....	4.0	5.3	4.7	3.5	2.1	1.3	0.7	0.7	0.3	0.5	0.9	5.2
25.....	3.9	5.0	4.7	3.3	2.0	1.3	0.6	0.5	2.2	0.4	1.6	3.8
26.....	3.6	5.5	4.6	3.2	2.0	1.2	0.5	0.5	4.0	0.3	3.1	3.0
27.....	3.6	5.5	4.2	3.2	2.0	1.2	0.5	0.6	3.3	0.2	4.8	2.6
28.....	4.2	22.7	5.0	3.0	1.8	1.1	0.5	1.2	2.0	0.4	3.8	2.2
29.....	6.5	-----	20.6	3.0	1.8	1.0	0.7	1.7	2.0	0.4	2.4	2.2
30.....	5.8	-----	28.9	2.9	1.8	1.0	2.0	1.0	1.8	0.3	2.2	2.6
31.....	5.4	-----	26.8	-----	1.8	-----	1.6	1.0	-----	0.3	-----	4.0
<b>Means.</b>	<b>6.5</b>	<b>8.0</b>	<b>11.6</b>	<b>5.6</b>	<b>2.5</b>	<b>0.9</b>	<b>1.1</b>	<b>0.9</b>	<b>1.2</b>	<b>1.1</b>	<b>1.2</b>	<b>3.4</b>
<b>1903</b>												
1.....	3.0	2.8	28.6	24.9	3.6	6.0	3.0	2.8	1.0	0.4	0.7	0.9
2.....	3.9	2.8	27.1	22.0	3.6	7.7	3.2	2.6	0.9	0.4	0.7	0.9
3.....	3.9	4.2	24.0	19.5	3.6	9.0	2.9	3.0	0.9	0.4	0.8	0.8
4.....	5.0	8.4	22.3	14.6	3.5	7.5	2.7	3.3	0.9	0.3	1.5	0.7
5.....	4.3	13.2	20.5	8.0	3.5	11.7	2.6	3.2	0.8	0.3	1.5	0.7
6.....	4.0	13.4	15.4	7.0	3.3	17.1	2.6	6.2	0.7	0.3	2.0	0.7
7.....	3.6	9.7	9.9	6.4	3.4	11.7	2.6	4.6	0.7	0.2	2.0	0.7
8.....	3.0	18.7	7.7	7.7	3.5	6.9	2.4	3.6	0.6	0.5	1.6	0.7
9.....	2.8	21.6	6.6	10.5	3.5	5.3	2.6	3.4	0.6	1.4	1.4	0.7
10.....	2.4	16.5	10.5	8.4	3.4	4.4	2.6	3.0	0.6	1.6	1.3	0.7
11.....	3.0	15.1	11.6	6.7	3.3	4.3	2.5	2.6	0.6	1.5	1.2	0.7
12.....	5.0	21.8	16.0	6.3	3.3	6.0	2.9	2.2	0.6	1.4	1.2	0.6
13.....	5.0	19.6	14.0	5.6	3.0	4.6	5.9	2.0	0.6	1.3	1.2	0.6
14.....	4.8	14.5	10.1	14.3	3.0	4.2	11.1	2.0	0.6	1.1	1.2	0.6
15.....	3.9	11.1	9.4	13.0	3.1	4.0	6.7	1.6	0.6	0.9	1.0	0.6
16.....	2.5	8.7	7.8	9.5	3.3	3.8	3.7	4.3	0.9	0.8	1.0	0.6
17.....	2.4	24.7	6.8	7.4	3.0	3.4	3.5	3.2	1.7	1.2	1.0	0.6
18.....	2.4	28.7	6.3	6.2	3.0	3.0	3.3	2.8	2.0	1.3	1.0	0.6
19.....	2.4	25.5	5.7	5.3	2.8	2.4	3.0	2.2	1.5	1.2	1.5	0.6
20.....	2.4	21.0	5.3	5.7	2.5	2.7	2.9	2.1	1.2	1.0	1.4	0.6
21.....	2.2	15.2	11.0	5.8	2.5	2.5	2.5	2.0	0.9	0.8	1.3	0.7
22.....	2.0	7.1	11.6	5.5	2.6	2.4	2.4	2.0	0.8	0.8	1.2	1.3
23.....	2.0	5.8	16.9	4.9	2.6	2.2	3.0	1.9	0.7	0.7	1.1	1.3
24.....	2.0	5.1	22.6	4.7	2.5	2.2	3.0	1.8	0.5	0.7	1.0	1.0
25.....	2.0	4.8	20.6	4.4	2.5	2.2	2.6	1.6	0.5	0.7	1.0	0.9
26.....	2.0	4.5	16.0	4.9	2.3	2.2	2.4	1.5	0.5	0.6	1.0	0.9
27.....	2.0	4.0	9.7	4.7	2.1	2.4	2.1	1.4	0.5	0.6	1.0	0.9
28.....	2.4	23.1	6.9	4.0	2.0	6.8	2.0	1.4	0.5	0.5	0.9	0.9
29.....	3.2	-----	7.8	3.9	2.0	6.8	1.8	1.3	0.4	0.4	0.9	0.9
30.....	4.2	-----	22.5	3.7	2.4	4.0	2.3	1.3	0.4	0.4	0.9	0.9
31.....	3.8	-----	27.6	-----	6.7	-----	2.6	1.2	-----	0.7	-----	0.9
<b>Means.</b>	<b>3.1</b>	<b>13.3</b>	<b>14.2</b>	<b>8.5</b>	<b>3.1</b>	<b>5.3</b>	<b>3.2</b>	<b>2.5</b>	<b>0.8</b>	<b>0.8</b>	<b>1.2</b>	<b>0.8</b>

## DESCRIPTION OF RIVER GAGES, ETC.

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## MOBILE RIVER SYSTEM—COOSA RIVER, ROME, GA.—Continued.

	Jan.	Feb.	Mar.	Apr. •	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	0.9	1.3	2.3	3.0	2.0	3.0	2.6	1.2	0.9	-0.3	-0.9	0.0
2.....	0.9	1.3	2.3	2.8	2.0	3.0	2.2	2.4	0.9	-0.3	-0.9	0.5
3.....	0.9	1.3	2.3	2.6	2.0	2.2	1.8	2.6	0.9	-0.5	-0.5	1.0
4.....	0.9	1.2	2.3	2.4	2.0	1.8	1.4	2.0	0.8	-0.6	-0.2	2.5
5.....	0.9	1.2	3.0	2.3	2.0	1.5	1.2	2.8	0.7	-0.6	-0.1	2.7
6.....	0.8	1.2	2.3	2.3	2.0	1.0	1.1	3.4	0.7	-0.4	0.0	3.3
7.....	8.8	2.0	3.0	2.3	2.0	1.8	1.1	3.2	0.9	-0.5	0.0	5.0
8.....	0.8	3.8	6.0	4.0	2.2	3.0	1.0	3.6	0.7	-0.6	0.0	3.5
9.....	0.8	3.8	5.0	5.8	2.2	2.5	0.9	8.2	0.6	-0.6	-0.2	3.0
10.....	0.8	3.2	3.8	5.6	3.8	2.0	0.8	4.8	0.4	-0.6	-0.3	2.4
11.....	0.8	3.2	3.2	3.9	3.2	1.4	0.8	3.4	0.2	-0.6	-0.4	2.2
12.....	0.8	3.2	3.8	3.2	2.8	1.1	0.6	2.8	0.0	-0.6	-0.4	2.0
13.....	0.8	3.0	4.2	3.0	2.7	0.8	1.5	2.6	0.0	-0.6	-0.2	1.7
14.....	0.8	3.0	5.6	2.6	2.0	0.8	2.6	2.2	-0.1	-0.6	-0.3	1.5
15.....	0.8	2.5	7.7	2.4	2.0	0.6	2.0	2.2	-0.2	-0.6	0.2	1.3
16.....	0.8	2.2	6.4	2.2	2.0	0.6	1.2	1.8	-0.2	-0.6	0.2	1.0
17.....	1.5	1.8	4.7	2.2	2.0	0.5	2.8	1.6	-0.4	-0.7	0.2	1.6
18.....	1.5	1.6	3.8	2.2	1.9	0.5	2.6	1.4	-0.4	-0.7	-0.2	0.3
19.....	1.4	1.6	3.0	2.0	1.8	0.4	2.0	1.0	-0.5	-0.7	-0.3	0.1
20.....	1.2	2.2	2.6	2.0	1.8	0.4	1.6	0.9	-0.5	-0.7	-0.3	0.1
21.....	1.0	2.8	2.6	2.0	1.7	1.5	2.0	0.8	-0.5	-0.7	-0.3	0.1
22.....	1.5	4.7	4.1	2.0	1.7	1.5	1.4	0.8	-0.5	-0.8	-0.3	0.1
23.....	5.0	7.7	6.7	2.0	1.6	2.5	1.3	0.6	-0.5	-0.8	-0.3	0.1
24.....	5.9	6.4	8.8	2.0	1.6	1.8	2.0	0.5	-0.5	-0.8	0.1	0.1
25.....	4.8	5.5	8.0	2.0	1.3	1.4	1.6	1.3	-0.5	-0.8	0.1	0.0
26.....	3.6	3.8	7.0	2.0	1.1	1.0	1.2	2.0	-0.5	-0.9	0.1	0.1
27.....	2.2	3.2	6.0	2.0	1.0	0.8	1.0	1.5	-0.5	-0.9	0.1	0.6
28.....	2.0	2.8	4.7	2.0	0.9	0.6	1.0	2.5	-0.5	-0.9	0.1	3.6
29.....	1.8	2.5	4.6	2.0	0.8	1.4	1.0	2.0	-0.5	-0.9	0.1	5.0
30.....	1.6	.....	4.0	2.0	0.7	2.6	1.2	1.3	-0.3	-0.9	0.0	4.9
31.....	1.4	.....	3.2	.....	0.7	.....	1.2	0.9	.....	-0.9	.....	3.2
Means.	1.6	2.9	4.4	2.6	1.9	1.5	1.5	2.2	0.0	-0.7	-0.2	1.7

## MOBILE RIVER SYSTEM—COOSA RIVER, GADSDEN, ALA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	2.6	2.2	7.4	7.1	6.4	2.5	14.1	5.6	1.1	0.4	1.0	6.0
2.....	2.0	1.9	7.9	6.4	6.7	2.1	12.0	3.4	1.1	0.2	0.6	4.0
3.....	1.9	1.8	7.8	5.8	6.0	2.0	10.7	2.8	1.1	0.0	0.6	3.2
4.....	1.3	1.8	7.1	5.0	5.0	1.9	10.0	2.1	1.0	0.0	1.1	3.3
5.....	0.9	2.0	6.5	5.2	4.5	2.9	8.5	1.8	1.0	0.0	1.4	5.0
6.....	0.9	3.0	6.0	5.2	4.0	4.5	7.0	1.4	0.9	0.0	1.4	7.0
7.....	0.9	3.5	5.6	5.0	3.5	4.7	5.7	1.2	0.7	0.0	2.0	8.0
8.....	0.9	3.4	6.8	4.5	3.4	6.4	5.0	1.2	0.7	0.0	1.5	6.7
9.....	0.9	3.9	12.1	4.0	3.2	10.4	4.1	1.1	0.7	2.6	1.1	5.4
10.....	0.9	6.0	14.5	4.2	3.0	11.8	4.7	0.9	0.6	4.5	0.9	4.3
11.....	1.3	7.6	14.3	8.8	2.9	10.4	4.4	0.9	0.4	4.0	0.7	3.5
12.....	5.4	8.4	13.9	15.5	2.8	8.7	3.8	0.9	0.2	3.5	0.6	3.3
13.....	8.8	16.0	11.4	16.3	2.6	5.5	3.4	0.9	0.0	2.8	0.5	3.0
14.....	9.8	20.3	8.2	14.5	2.4	5.0	3.2	0.9	0.0	2.6	0.5	2.5
15.....	9.4	21.6	5.5	11.4	2.0	5.6	3.1	0.9	3.3	2.6	0.5	2.5
16.....	7.6	21.6	7.0	8.3	1.9	6.0	3.0	0.9	8.5	2.4	0.5	2.2
17.....	5.5	21.6	7.5	17.4	1.9	6.1	2.9	0.9	10.7	2.2	0.5	2.0
18.....	4.0	21.3	7.1	21.8	1.9	6.2	2.8	1.0	9.5	1.8	0.5	1.6
19.....	4.5	20.0	7.3	22.5	1.9	8.2	2.7	1.0	5.7	1.6	0.5	1.5
20.....	10.1	16.2	13.0	20.0	2.4	9.5	2.2	1.0	3.3	1.4	0.6	2.6
21.....	13.8	8.8	17.5	18.5	2.9	8.0	2.0	1.5	1.7	1.2	0.9	3.6
22.....	13.3	8.0	18.2	18.3	2.6	6.5	1.7	1.0	1.0	1.1	3.3	7.0
23.....	11.3	9.0	17.8	17.8	2.2	6.0	1.5	1.0	0.7	1.4	3.5	7.4
24.....	8.8	9.3	16.0	17.5	2.5	14.0	1.8	1.0	0.5	1.4	3.3	9.0
25.....	6.3	8.7	13.0	13.3	2.9	16.6	1.7	0.9	0.4	8.0	3.4	8.5
26.....	4.7	7.5	13.1	11.4	2.9	18.4	2.1	1.5	0.4	10.5	4.0	8.0
27.....	4.0	6.8	14.5	9.4	2.8	19.5	3.0	1.3	0.4	7.3	12.3	7.0
28.....	3.4	6.0	14.5	7.7	2.5	19.6	4.4	1.1	0.4	2.8	12.4	5.5
29.....	2.9	.....	12.8	6.8	2.2	18.3	6.3	1.0	0.4	2.0	11.0	4.6
30.....	2.5	.....	10.0	5.9	2.2	17.4	7.5	1.0	0.4	1.4	9.5	4.8
31.....	2.3	.....	7.9	.....	2.0	.....	6.7	1.0	.....	1.0	.....	5.3
Means.	4.9	9.6	10.7	11.2	3.1	8.8	4.9	1.4	1.9	2.3	2.7	4.8

## DESCRIPTION OF RIVER GAGES, ETC.

## MOBILE RIVER SYSTEM—COOSA RIVER, GADSDEN, ALA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	7.5	8.0	3.0	20.3	5.2	9.5	2.8	0.9	6.5	2.0	1.0	0.1
2.....	8.2	8.3	3.5	18.8	4.7	10.9	3.1	0.9	5.5	2.0	0.9	0.1
3.....	8.0	8.7	3.0	16.5	4.4	11.5	3.3	0.9	5.2	2.1	0.9	0.1
4.....	6.7	12.0	3.0	15.0	4.0	8.0	3.0	0.9	4.5	2.1	0.9	0.4
5.....	5.6	16.0	3.0	14.7	3.9	6.5	2.5	0.9	3.9	2.0	0.9	0.9
6.....	4.8	17.0	3.0	13.5	3.8	6.0	2.5	0.9	3.4	1.8	0.9	0.9
7.....	4.2	16.8	2.8	10.2	3.8	5.6	2.2	2.0	3.0	1.6	0.8	0.8
8.....	4.0	15.0	2.8	8.6	3.6	5.2	2.1	4.1	2.8	1.5	0.7	0.8
9.....	3.3	12.6	2.8	7.1	3.5	5.9	2.0	5.7	2.5	1.5	0.7	0.8
10.....	3.2	13.0	5.1	6.2	3.3	6.5	3.8	4.0	2.2	1.4	0.6	0.7
11.....	7.5	13.6	7.9	5.5	3.0	5.5	2.5	3.0	2.0	1.3	0.6	0.9
12.....	18.5	13.3	10.0	5.1	2.8	4.2	2.3	2.0	2.0	1.2	0.6	0.9
13.....	22.4	11.0	9.8	5.0	3.0	4.0	1.6	3.1	2.0	1.4	0.6	0.9
14.....	21.9	9.0	8.5	8.0	2.8	3.8	1.4	3.0	2.0	1.5	0.6	1.9
15.....	21.0	7.3	6.8	10.4	2.8	3.8	1.3	2.4	1.9	1.5	0.6	14.2
16.....	20.4	6.5	5.3	11.2	2.7	4.8	1.2	3.3	1.9	1.5	0.6	17.2
17.....	20.0	6.1	4.7	9.9	2.6	5.5	1.2	8.5	3.9	1.3	0.5	17.5
18.....	19.4	5.4	3.9	7.8	2.6	6.4	1.4	12.0	5.7	1.3	0.5	16.6
19.....	18.1	5.0	3.7	13.0	2.6	5.5	2.1	14.5	9.5	1.3	0.7	15.0
20.....	12.8	5.0	3.5	18.0	2.8	4.5	4.0	15.0	10.5	1.2	0.5	13.4
21.....	6.7	4.7	3.5	22.0	4.6	4.3	3.0	15.4	9.0	1.2	0.5	10.4
22.....	5.3	4.2	3.5	21.8	11.0	3.5	2.5	15.0	6.0	1.2	0.4	6.5
23.....	5.0	4.0	3.5	18.8	15.0	3.2	2.2	17.4	3.6	1.2	0.3	3.4
24.....	4.7	4.1	4.0	17.2	16.8	2.9	2.2	20.0	3.3	1.3	0.3	3.4
25.....	5.5	3.8	4.5	15.2	17.8	2.9	2.0	19.7	2.6	1.3	0.3	3.2
26.....	6.7	3.5	18.0	12.0	19.0	2.8	1.8	19.7	2.3	1.3	0.2	4.4
27.....	7.1	3.0	21.2	7.9	17.9	2.7	1.6	18.0	2.0	1.2	0.2	5.3
28.....	7.0	2.8	21.5	6.7	16.0	2.6	1.4	15.7	2.0	1.2	0.2	7.5
29.....	6.5		21.0	5.7	10.6	2.6	1.2	12.5	2.0	1.1	0.1	13.8
30.....	6.3		21.0	5.5	6.0	2.8	1.0	10.0	2.0	1.0	0.1	20.0
31.....	6.6		22.0		5.5		1.0	8.0		1.0		22.0
Means.	9.9	8.6	7.7	11.9	6.7	5.1	2.1	8.4	3.9	1.4	0.6	6.6
<b>1902</b>												
1.....	22.3	12.8	20.1	21.5	3.0	1.1	0.5	0.0	0.8	1.1	-0.8	2.0
2.....	22.7	17.3	21.8	21.3	3.0	1.0	0.5	0.0	0.4	0.9	-0.8	1.6
3.....	23.2	19.8	21.7	21.2	3.0	1.0	0.4	0.0	0.0	0.1	-0.8	5.7
4.....	23.3	21.3	21.5	20.1	3.0	1.0	0.4	0.0	0.1	0.1	-0.8	7.7
5.....	22.8	20.9	22.4	15.4	3.0	0.9	0.4	-0.1	0.2	-0.2	-0.8	9.4
6.....	21.8	20.3	22.7	12.4	3.0	0.9	0.3	-0.2	0.2	-0.4	-0.8	8.3
7.....	17.5	18.4	21.8	9.2	2.8	0.8	0.3	-0.3	0.1	-0.4	-0.8	6.7
8.....	8.3	13.0	19.9	8.9	2.8	0.8	0.3	0.1	0.0	-0.5	-0.8	4.5
9.....	6.0	9.0	14.5	9.4	2.8	0.8	0.2	-0.1	-0.1	-0.5	-0.8	2.8
10.....	5.0	6.6	11.0	9.4	2.6	0.8	0.2	-0.2	-0.2	-0.5	-0.8	2.3
11.....	4.6	6.6	9.0	8.5	2.4	0.8	0.2	-0.2	-0.3	0.3	-0.8	1.6
12.....	4.3	5.4	8.3	7.1	2.2	0.8	0.2	-0.2	-0.4	3.1	-0.8	1.8
13.....	4.0	5.2	7.5	6.1	2.0	0.8	0.2	-0.3	-0.5	3.4	-0.9	1.7
14.....	3.7	4.7	7.0	5.8	1.9	0.7	0.2	-0.3	-0.6	2.2	-0.9	1.6
15.....	3.6	5.2	6.5	5.0	2.2	0.7	0.2	-0.4	-0.6	1.6	-0.9	1.6
16.....	3.0	5.6	8.9	5.0	2.2	0.7	0.1	-0.4	0.0	1.4	-0.9	2.9
17.....	3.0	5.9	11.5	5.0	2.5	1.0	0.1	-0.3	0.0	1.2	-0.9	4.5
18.....	2.8	5.9	13.6	5.4	2.4	1.0	0.0	-0.3	-0.2	1.1	-0.6	6.0
19.....	3.4	5.9	13.7	6.0	2.1	1.1	0.0	-0.4	-0.5	1.0	-0.5	5.5
20.....	4.0	5.2	11.8	5.6	2.0	1.1	0.0	-0.4	-0.7	1.0	-0.5	5.2
21.....	5.0	4.8	9.1	5.0	1.9	1.0	0.0	-0.4	-0.7	0.7	-0.1	6.1
22.....	7.5	4.5	7.4	4.4	1.8	0.9	0.4	-0.5	-0.7	0.2	-0.2	8.4
23.....	7.8	4.8	6.8	4.1	1.7	0.8	0.2	-0.5	-0.7	0.0	-0.4	9.9
24.....	7.6	5.1	6.1	4.0	1.6	0.7	0.1	0.0	-0.7	-0.2	-0.4	9.4
25.....	6.5	5.6	6.0	4.0	1.6	0.6	0.0	-0.1	-0.5	-0.4	-0.1	7.5
26.....	5.8	5.3	5.8	4.0	1.6	0.5	0.0	-0.3	0.1	-0.5	1.7	5.5
27.....	5.0	6.6	5.8	3.8	1.6	0.5	-0.1	-0.4	2.6	-0.6	3.3	3.8
28.....	7.0	15.0	8.0	3.4	1.5	0.5	-0.1	-0.5	3.5	-0.6	4.9	3.0
29.....	7.4		17.5	3.2	1.3	0.5	-0.1	-0.4	2.8	-0.6	4.0	2.5
30.....	8.1		21.5	3.0	1.2	0.5	-0.1	1.4	1.9	-0.7	3.0	2.9
31.....	8.9		22.1		1.2		-0.1	1.3		-0.8		3.8
Means.	9.2	9.5	13.3	8.2	2.2	0.8	0.2	-0.1	0.2	0.4	0.0	4.7

## MOBILE RIVER SYSTEM—COOSA RIVER, GADSDEN, ALA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	4.0	3.8	18.8	19.8	4.3	8.1	5.4	2.6	0.1	-0.4	-0.2	-0.2
2.....	4.0	3.5	21.0	20.6	4.0	10.5	3.2	2.6	0.1	-0.4	-0.2	-0.2
3.....	5.8	3.8	21.1	20.8	3.8	10.0	2.3	2.3	0.1	-0.4	-0.3	-0.2
4.....	6.3	8.0	21.1	20.8	3.6	8.7	2.2	2.0	0.1	-0.4	-0.2	-0.2
5.....	6.5	13.0	21.7	19.6	3.5	8.8	2.2	2.8	0.0	-0.4	0.1	-0.2
6.....	6.4	14.8	22.2	18.0	3.4	10.0	2.2	3.0	-0.1	-0.4	0.8	-0.2
7.....	5.6	14.8	22.0	12.1	3.4	14.0	2.6	5.5	-0.1	-0.4	1.0	-0.2
8.....	4.5	15.9	20.1	8.8	4.7	14.7	2.1	5.0	-0.1	-0.4	1.2	-0.2
9.....	3.8	19.0	17.2	12.8	4.0	11.8	1.8	2.8	-0.1	-0.4	0.7	-0.2
10.....	3.0	19.8	12.9	13.0	3.9	7.5	2.2	1.8	-0.1	-0.1	0.2	-0.2
11.....	3.5	20.5	12.8	11.4	3.6	5.5	2.3	1.5	-0.2	0.8	0.0	-0.2
12.....	5.0	21.0	12.8	8.0	3.2	5.3	2.6	1.2	-0.2	0.4	0.0	-0.2
13.....	7.0	21.2	13.4	8.0	3.3	5.5	2.7	1.0	-0.2	0.0	-0.1	-0.2
14.....	8.0	20.9	15.9	12.5	3.4	4.6	5.3	1.0	-0.2	-0.3	0.1	-0.2
15.....	6.8	20.6	14.9	14.9	6.5	4.2	8.6	1.2	-0.3	-0.4	0.2	-0.2
16.....	5.0	20.0	14.0	14.9	5.8	3.5	8.4	2.1	-0.3	-0.4	0.1	-0.3
17.....	3.9	20.8	11.6	13.0	4.8	3.3	5.3	2.5	-0.3	-0.2	0.0	-0.3
18.....	3.3	21.4	9.7	9.8	3.8	2.8	3.0	3.1	-0.1	-0.1	0.0	-0.3
19.....	3.1	22.0	7.3	8.1	3.1	2.7	2.5	2.6	1.0	-0.1	0.0	-0.3
20.....	2.8	21.8	7.3	7.5	2.8	2.6	2.0	1.8	0.5	0.3	0.1	-0.3
21.....	2.5	21.6	9.0	7.3	2.7	2.5	1.9	1.9	0.0	0.5	0.1	-0.2
22.....	2.1	20.9	11.1	7.0	2.6	2.4	1.8	1.8	-0.1	0.0	0.2	0.2
23.....	2.0	20.0	13.0	6.4	2.5	2.3	1.7	1.4	-0.2	0.0	0.2	0.2
24.....	1.9	13.9	15.4	6.0	2.4	2.0	1.7	0.9	-0.3	-0.1	0.0	0.9
25.....	1.8	7.8	16.8	5.4	2.2	1.9	1.9	0.8	-0.3	-0.2	-0.1	0.7
26.....	1.6	6.0	17.9	5.1	2.1	1.9	1.7	0.7	-0.3	-0.3	-0.1	0.4
27.....	1.5	5.4	17.7	4.9	2.0	1.8	1.5	0.6	-0.3	-0.3	-0.1	0.2
28.....	2.1	11.4	16.2	4.8	1.8	3.1	1.5	0.6	-0.3	-0.4	-0.1	0.1
29.....	2.9	.....	14.6	4.7	1.7	5.0	1.1	0.5	-0.3	-0.4	-0.1	0.2
30.....	3.8	.....	13.0	4.4	1.9	6.8	1.0	0.3	-0.4	-0.4	-0.1	0.1
31.....	4.0	.....	17.9	.....	3.1	.....	1.7	0.2	.....	-0.3	.....	0.0
<b>Means.</b>	<b>4.0</b>	<b>15.5</b>	<b>15.5</b>	<b>11.0</b>	<b>3.4</b>	<b>5.8</b>	<b>2.8</b>	<b>1.9</b>	<b>-0.1</b>	<b>-0.2</b>	<b>0.1</b>	<b>-0.1</b>
<b>1904</b>												
1.....	0.0	1.0	2.6	3.9	1.6	2.2	2.0	-0.6	0.0	-1.0	-1.2	-0.8
2.....	0.0	0.9	2.4	3.4	1.5	2.0	1.5	0.0	-0.1	-1.0	-1.1	-0.7
3.....	-0.1	0.8	2.4	3.1	1.4	3.0	1.0	0.5	-0.2	-1.0	-1.0	-0.7
4.....	-0.1	0.8	2.9	2.8	1.3	2.3	0.7	2.0	-0.3	-1.0	-1.0	-0.6
5.....	-0.1	0.8	2.8	2.4	1.1	1.4	0.4	2.4	-0.3	-1.0	-0.7	1.0
6.....	-0.1	0.8	3.0	2.4	1.0	0.8	0.0	3.0	-0.4	-1.1	-0.7	2.4
7.....	-0.1	0.9	3.3	2.1	0.9	0.4	1.2	3.2	-0.4	-1.0	-0.8	3.8
8.....	-0.2	2.0	3.8	3.4	0.8	0.5	0.5	2.9	-0.5	-1.0	-0.7	4.9
9.....	-0.2	3.7	6.2	4.9	0.7	0.9	0.5	3.0	-0.5	-1.0	-0.7	3.9
10.....	-0.1	3.7	6.1	5.1	0.7	1.3	0.4	5.2	-0.5	-1.0	-0.8	2.1
11.....	-0.1	4.5	5.0	6.0	0.7	0.9	0.4	6.6	-0.6	-1.1	-0.8	1.3
12.....	0.0	4.1	4.7	5.4	2.0	0.4	0.4	4.0	-0.7	-1.1	-0.8	0.5
13.....	-0.1	3.8	4.8	4.1	1.1	0.1	0.2	3.0	-0.7	-1.1	-0.8	0.4
14.....	-0.1	3.0	5.5	3.0	1.1	-0.1	0.0	2.4	-0.7	-1.1	-0.8	0.3
15.....	-0.1	2.3	9.0	2.6	0.9	-0.2	0.1	1.8	-0.7	-1.1	-0.9	0.3
16.....	-0.1	2.0	9.6	2.4	0.7	-0.2	0.6	1.5	-0.7	-1.1	-0.9	0.0
17.....	0.0	1.8	8.3	2.2	0.5	-0.3	0.6	1.5	-0.7	-1.1	-0.8	0.0
18.....	0.8	1.7	6.4	2.0	0.4	-0.3	0.6	1.0	-0.7	-1.1	-0.8	-0.2
19.....	0.9	1.6	4.8	1.9	0.4	-0.3	0.6	0.8	-0.7	-1.1	-0.8	-0.2
20.....	1.6	2.0	4.0	1.8	0.3	-0.3	0.4	0.5	-0.8	-1.2	-0.8	-0.2
21.....	0.5	2.8	3.0	1.7	0.1	-0.3	0.1	0.2	-0.8	-1.2	-0.8	-0.3
22.....	1.9	4.8	2.8	1.6	0.0	-0.3	0.0	0.0	-0.8	-1.2	-0.8	-0.3
23.....	4.2	6.0	5.0	1.5	0.0	0.0	0.0	0.1	-0.7	-1.2	-0.7	-0.3
24.....	5.9	7.4	7.0	1.5	-0.1	0.3	-0.1	0.1	-0.7	-1.2	-0.9	-0.3
25.....	6.7	7.9	8.9	1.4	-0.2	-0.2	-0.1	-0.1	-0.8	-1.2	-0.9	-0.3
26.....	5.8	6.8	9.4	1.5	-0.2	-0.3	-0.1	-0.1	-0.8	-1.2	-0.6	0.0
27.....	4.1	5.0	8.0	1.7	-0.2	-0.3	-0.1	-0.1	-0.8	-1.2	-0.7	0.0
28.....	3.0	4.0	7.7	2.0	-0.2	-0.2	-0.4	0.9	-0.8	-1.2	-0.7	2.4
29.....	1.8	2.9	6.4	2.1	-0.2	-0.1	-0.5	0.8	-1.0	-1.2	-0.7	5.8
30.....	1.6	.....	5.5	1.9	-0.1	1.9	-0.5	0.8	-1.0	-1.2	-0.7	6.4
31.....	1.3	.....	4.7	.....	0.7	.....	-0.6	0.7	.....	-1.2	.....	6.0
<b>Means.</b>	<b>1.3</b>	<b>3.1</b>	<b>5.4</b>	<b>2.7</b>	<b>0.6</b>	<b>0.5</b>	<b>0.3</b>	<b>1.5</b>	<b>-0.6</b>	<b>-1.1</b>	<b>-0.8</b>	<b>1.2</b>

## DESCRIPTION OF RIVER GAGES, ETC.

## MOBILE RIVER SYSTEM—COOSA RIVER, LOCK NO. 4 (LINCOLN), ALA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	3.0	2.4	7.4	6.4	5.3	2.5	13.1	5.2	1.3	0.8	2.1	7.2
2.....	2.5	2.2	7.9	5.6	5.5	2.5	10.5	3.9	1.4	0.7	1.9	4.8
3.....	2.2	2.0	7.4	5.0	5.7	2.7	9.5	3.1	1.8	0.7	1.9	3.7
4.....	1.9	2.0	6.9	4.8	4.9	2.3	8.9	2.7	1.6	0.7	2.2	3.4
5.....	1.6	2.4	6.0	4.8	4.3	2.7	7.9	2.3	1.4	0.7	2.2	4.2
6.....	1.4	2.7	5.5	4.9	4.2	3.3	6.8	2.0	1.3	0.7	2.2	5.2
7.....	1.4	3.1	5.5	4.6	3.7	3.9	5.6	1.7	1.1	0.8	2.3	6.5
8.....	1.5	3.4	7.3	4.4	3.5	4.5	4.6	1.7	1.1	1.5	2.4	6.3
9.....	1.5	4.0	9.5	4.1	3.2	6.5	4.9	1.6	1.3	1.9	2.0	5.2
10.....	1.4	5.4	10.7	4.4	3.2	8.5	4.2	1.5	0.7	3.4	1.8	4.3
11.....	1.6	6.2	11.4	6.9	3.0	8.6	4.4	1.5	0.7	4.2	1.5	3.7
12.....	5.3	7.0	11.1	13.4	2.9	7.5	3.9	1.4	0.6	3.7	1.4	3.3
13.....	6.5	14.5	9.8	14.0	2.8	5.5	4.3	1.7	0.6	3.9	1.3	3.0
14.....	8.1	17.0	8.1	12.5	2.6	4.5	2.8	1.5	0.7	3.9	1.2	2.8
15.....	7.1	16.9	6.3	10.3	2.5	4.5	2.8	1.4	3.8	3.2	1.2	2.7
16.....	7.1	16.5	6.3	8.5	2.4	4.8	3.2	1.3	5.9	2.8	1.2	2.5
17.....	5.7	16.0	6.7	14.1	2.3	5.2	3.2	1.6	8.1	2.7	1.1	2.4
18.....	4.6	15.6	6.5	19.8	2.3	5.0	3.0	1.4	8.2	2.2	1.1	2.3
19.....	4.1	15.0	6.6	19.8	2.3	7.1	2.6	1.5	5.9	1.6	1.0	2.1
20.....	7.4	13.2	10.7	17.5	2.4	7.4	2.4	1.7	3.9	1.4	1.6	2.3
21.....	10.0	9.8	13.3	15.5	2.6	6.8	2.4	1.9	2.5	1.2	1.8	3.0
22.....	11.0	8.1	14.2	14.5	2.7	6.2	2.2	1.8	1.9	1.1	4.0	5.0
23.....	10.5	7.8	13.8	13.9	2.5	6.2	2.2	1.5	1.6	1.8	3.9	6.9
24.....	8.4	7.9	13.0	13.3	2.9	11.6	2.2	1.3	1.4	3.0	3.5	8.0
25.....	6.5	7.8	11.5	11.7	3.1	13.7	2.3	1.4	1.3	4.5	3.1	7.6
26.....	5.0	7.0	11.1	9.7	2.8	16.1	2.2	1.8	1.2	8.1	5.6	8.0
27.....	4.0	6.3	11.1	8.7	3.0	15.0	3.5	1.9	1.2	7.7	8.5	6.4
28.....	3.5	5.7	11.3	7.3	2.5	16.5	3.7	1.8	1.1	4.7	9.7	5.5
29.....	3.3	.....	10.5	6.3	2.5	14.7	5.1	1.4	1.0	4.0	9.5	4.6
30.....	2.8	.....	9.4	5.5	2.3	14.0	5.8	1.5	1.0	2.4	8.2	4.0
31.....	2.5	.....	7.5	.....	2.3	.....	6.3	1.4	.....	2.1	.....	5.5
<b>Means.</b>	<b>6.2</b>	<b>8.1</b>	<b>9.2</b>	<b>9.7</b>	<b>3.2</b>	<b>7.3</b>	<b>4.7</b>	<b>1.9</b>	<b>2.2</b>	<b>2.6</b>	<b>3.0</b>	<b>4.6</b>
<b>1901</b>												
1.....	6.5	6.5	3.3	16.0	4.6	5.9	2.7	1.7	6.0	2.1	1.1	1.1
2.....	7.1	7.1	3.3	15.7	4.4	8.9	2.7	1.8	5.2	4.0	1.1	1.0
3.....	7.3	7.5	3.6	14.8	4.1	9.1	3.1	1.5	4.6	2.8	1.1	1.2
4.....	6.6	11.0	3.4	12.5	3.9	8.0	2.8	1.4	4.2	2.6	1.1	1.3
5.....	5.7	12.4	3.3	11.7	3.8	6.1	2.5	1.2	3.6	2.7	1.1	1.4
6.....	4.9	13.5	3.1	11.0	3.7	5.8	2.2	1.2	3.0	2.5	1.1	1.6
7.....	4.4	13.3	3.1	9.5	3.6	5.2	2.1	1.3	2.8	2.2	1.1	1.8
8.....	3.9	12.6	2.9	8.3	3.5	4.5	2.1	2.9	2.7	1.9	1.1	1.7
9.....	3.6	10.7	2.9	6.8	3.4	5.7	3.5	4.3	2.5	1.8	1.1	1.6
10.....	3.4	10.2	3.2	5.9	3.3	5.9	3.9	4.5	2.4	1.7	1.1	1.6
11.....	6.5	10.2	5.9	5.3	3.1	5.0	2.9	3.0	2.3	1.6	1.0	1.6
12.....	17.0	9.9	8.1	4.8	3.0	4.1	2.2	2.2	2.2	1.5	1.0	1.7
13.....	17.6	9.5	8.4	4.7	3.0	3.6	1.9	2.1	2.3	1.8	1.0	2.1
14.....	17.1	8.5	7.6	6.8	2.9	3.4	1.7	3.0	2.4	1.7	1.1	3.9
15.....	16.9	7.0	6.4	8.2	2.9	3.5	1.6	2.9	2.2	1.9	1.1	12.4
16.....	16.5	6.2	5.1	9.2	2.8	3.6	1.5	3.0	2.2	1.9	1.1	12.8
17.....	16.2	5.6	4.2	8.8	2.7	3.9	1.5	5.4	3.5	1.9	1.1	13.0
18.....	16.0	5.3	3.8	7.5	2.5	5.1	2.2	10.0	6.2	2.0	1.1	12.4
19.....	15.3	5.0	3.5	11.3	2.6	4.9	2.0	10.3	7.0	1.8	1.0	11.4
20.....	12.2	4.7	3.5	15.5	2.6	4.3	3.2	11.5	8.2	1.5	1.0	10.2
21.....	10.4	4.5	3.8	16.3	4.0	3.9	3.1	12.5	7.9	1.4	1.1	9.1
22.....	5.5	4.2	3.6	15.9	8.4	3.5	2.5	11.7	5.9	1.4	1.2	6.0
23.....	4.7	4.1	3.5	15.0	10.5	3.1	2.5	12.7	4.0	1.4	1.2	3.7
24.....	4.5	3.8	4.1	13.9	11.9	2.9	2.1	13.9	3.1	1.3	1.3	3.5
25.....	5.4	3.6	4.2	12.4	12.7	3.1	2.0	13.7	2.7	1.3	1.3	3.9
26.....	5.7	3.6	15.9	10.7	13.2	2.6	1.9	13.5	2.5	1.3	1.3	4.1
27.....	6.4	3.5	17.5	8.3	13.2	2.5	1.6	13.2	2.3	1.2	1.5	5.6
28.....	6.9	3.3	17.1	6.2	12.4	2.5	1.5	12.7	2.2	1.2	1.4	6.3
29.....	6.3	.....	16.2	5.4	10.3	2.6	1.4	10.4	2.1	1.2	1.3	12.2
30.....	5.9	.....	15.9	5.0	6.7	2.7	1.7	9.0	2.1	1.2	1.1	16.4
31.....	6.1	.....	16.8	.....	4.9	.....	1.9	7.2	.....	1.1	.....	17.6
<b>Means.</b>	<b>8.8</b>	<b>7.4</b>	<b>6.7</b>	<b>10.1</b>	<b>5.6</b>	<b>4.5</b>	<b>2.3</b>	<b>6.6</b>	<b>3.7</b>	<b>1.8</b>	<b>1.1</b>	<b>5.9</b>



## MOBILE RIVER SYSTEM—COOSA RIVER, LOCK NO. 4 (LINCOLN), ALA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	17.5	11.3	16.5	16.9	3.0	1.5	0.6	0.5	1.9	2.4	0.1	2.2
2.....	16.9	14.7	17.0	16.4	2.9	1.3	0.6	0.9	1.3	1.9	0.1	1.9
3.....	16.8	15.7	16.4	16.2	3.0	1.3	0.5	0.9	0.7	1.7	0.0	4.4
4.....	16.9	15.8	16.2	15.7	3.1	1.3	0.5	0.6	0.7	1.5	0.0	6.0
5.....	16.9	15.4	16.8	13.5	3.0	1.3	0.5	0.5	0.8	1.5	0.1	7.0
6.....	16.4	15.0	16.9	8.7	2.9	1.2	0.6	0.5	0.7	1.2	0.1	7.4
7.....	15.1	14.4	16.5	7.7	2.7	1.2	0.6	1.1	0.9	1.1	0.2	5.9
8.....	9.6	11.5	15.7	7.8	2.6	1.1	0.5	1.1	0.7	1.5	0.4	4.5
9.....	5.8	7.9	13.6	8.1	2.5	1.0	0.5	0.8	0.6	0.8	0.7	3.6
10.....	4.7	6.7	10.0	7.8	2.3	1.1	0.4	0.5	0.5	0.6	1.0	2.7
11.....	4.4	5.4	8.0	7.6	2.3	1.5	0.5	0.5	0.3	1.9	0.7	2.2
12.....	4.0	5.0	7.2	6.6	2.2	1.8	0.6	0.3	0.3	4.0	0.5	1.9
13.....	3.8	4.7	6.7	5.8	2.2	1.4	0.7	0.2	0.3	3.6	0.5	1.7
14.....	3.6	4.3	6.2	5.3	2.2	1.2	0.8	0.2	0.4	2.8	0.3	1.4
15.....	3.4	5.0	5.9	4.9	2.3	1.1	0.9	0.2	0.3	2.1	0.2	1.4
16.....	3.1	5.5	7.1	4.6	2.2	1.1	1.1	0.5	0.2	1.9	0.2	3.8
17.....	3.0	5.2	10.1	4.6	2.5	1.0	1.1	0.4	0.9	1.4	0.3	5.7
18.....	2.9	5.3	10.4	4.7	2.8	0.9	1.3	0.3	0.8	1.4	0.3	5.8
19.....	3.1	5.2	10.6	5.0	2.4	1.1	1.4	0.2	0.5	1.1	0.3	5.5
20.....	3.6	4.9	9.6	5.3	2.1	1.2	0.7	0.4	0.3	0.9	0.3	5.1
21.....	4.6	4.7	8.2	4.8	2.1	1.2	0.6	0.4	0.2	0.6	0.8	5.4
22.....	6.6	4.7	6.9	4.3	2.2	1.3	0.5	0.4	0.1	0.4	1.0	7.5
23.....	6.8	4.8	6.0	3.8	2.1	1.3	0.4	0.4	0.2	0.3	0.8	7.8
24.....	6.3	5.1	5.7	3.7	1.9	1.2	0.4	0.7	0.4	0.3	0.5	8.0
25.....	5.8	5.6	5.8	3.6	1.8	1.1	0.4	0.9	0.4	0.2	0.9	7.0
26.....	5.2	5.7	5.6	3.5	1.7	1.0	0.4	0.8	0.5	0.3	2.0	5.5
27.....	4.7	6.0	6.5	3.4	1.7	0.9	0.4	0.5	1.4	0.2	3.0	4.2
28.....	5.8	14.4	9.8	3.3	1.6	0.8	0.4	0.3	3.7	0.1	3.5	3.7
29.....	6.7	.....	15.7	3.1	1.6	0.8	0.6	0.3	3.6	0.1	4.0	1.8
30.....	7.1	.....	19.3	3.1	1.6	0.7	0.5	0.5	3.3	0.1	3.0	3.6
31.....	8.0	.....	18.4	.....	1.5	.....	0.5	1.8	.....	0.1	.....	3.7
<b>Means.</b>	<b>7.7</b>	<b>8.2</b>	<b>11.1</b>	<b>7.0</b>	<b>2.3</b>	<b>1.2</b>	<b>0.6</b>	<b>0.6</b>	<b>0.9</b>	<b>1.2</b>	<b>0.9</b>	<b>4.5</b>
<b>1903</b>												
1.....	3.7	3.9	14.7	15.4	3.8	7.8	5.2	2.9	0.5	0.1	0.2	0.2
2.....	4.2	3.7	16.3	15.6	3.6	8.6	3.7	3.3	0.5	0.1	0.2	0.2
3.....	5.3	3.7	16.5	15.7	3.5	8.0	2.4	2.9	0.4	0.1	0.3	0.2
4.....	5.9	5.6	16.6	15.6	3.4	7.4	2.5	2.6	0.4	0.1	0.4	0.2
5.....	5.8	10.0	16.5	15.5	3.2	7.6	2.4	2.2	0.4	0.1	0.4	0.2
6.....	5.6	11.5	17.3	14.8	3.2	8.0	2.4	3.0	0.4	0.1	0.9	0.2
7.....	5.1	12.4	17.4	12.0	3.5	9.7	2.4	3.5	0.4	0.1	1.0	0.2
8.....	4.3	17.0	16.5	8.7	3.8	11.2	2.3	4.7	0.4	0.3	1.3	0.2
9.....	3.7	16.7	15.1	10.3	4.0	10.4	2.1	3.2	0.4	0.2	1.3	0.2
10.....	3.3	16.4	11.9	11.0	3.3	7.6	2.1	2.2	0.4	0.2	1.0	0.2
11.....	3.3	17.0	10.4	10.0	3.3	5.8	2.3	1.8	0.3	0.3	0.7	0.2
12.....	5.1	17.9	10.4	8.3	3.3	4.8	2.3	1.0	0.3	0.8	0.6	0.2
13.....	5.9	17.0	10.7	7.3	3.2	4.6	2.8	1.5	0.2	0.7	0.6	0.3
14.....	6.7	16.6	13.0	10.0	3.1	4.8	3.6	1.3	0.2	0.6	0.6	0.3
15.....	6.4	16.1	13.4	11.5	9.6	4.2	6.1	1.3	0.2	0.3	0.6	0.3
16.....	5.2	16.0	12.2	11.9	8.4	3.6	7.2	1.7	0.2	0.2	0.5	0.2
17.....	3.2	20.1	10.4	11.0	6.1	3.1	4.9	1.7	0.2	0.2	0.5	0.2
18.....	3.2	19.0	8.9	9.4	4.9	2.9	3.7	3.1	0.3	0.3	0.5	0.3
19.....	3.1	18.0	7.7	7.5	3.9	2.8	2.7	2.6	1.2	0.3	0.4	0.3
20.....	3.0	16.9	6.8	6.7	3.8	2.5	2.4	2.2	1.2	0.5	0.4	0.4
21.....	2.7	16.4	7.0	6.5	3.1	2.3	1.9	1.7	0.8	0.7	0.4	0.4
22.....	2.6	16.1	8.4	6.2	2.9	2.1	1.8	1.5	0.5	0.7	1.0	0.4
23.....	2.4	15.9	10.4	5.8	2.8	2.1	1.6	1.0	0.4	0.5	0.9	0.6
24.....	2.4	13.8	11.9	5.3	2.6	2.1	1.6	1.2	0.3	0.4	0.6	0.8
25.....	2.0	8.4	12.8	5.0	2.5	2.1	1.8	1.1	0.3	0.3	0.5	1.1
26.....	2.0	5.8	13.5	4.6	2.3	2.0	1.6	1.0	0.2	0.3	0.4	1.0
27.....	1.9	5.0	13.5	4.4	2.2	2.1	1.5	0.9	0.2	0.2	0.4	0.7
28.....	2.5	10.1	13.2	4.3	2.1	2.1	1.4	0.7	0.2	0.1	0.3	0.7
29.....	3.0	.....	11.0	4.3	2.0	2.8	1.4	0.7	0.1	0.1	0.3	0.6
30.....	3.4	.....	11.7	4.0	2.8	5.2	1.6	0.6	0.1	0.1	0.2	0.7
31.....	3.8	.....	14.5	.....	3.4	.....	1.5	0.6	.....	0.2	.....	0.6
<b>Means.</b>	<b>3.9</b>	<b>13.1</b>	<b>12.6</b>	<b>9.3</b>	<b>3.7</b>	<b>5.0</b>	<b>2.7</b>	<b>1.9</b>	<b>0.4</b>	<b>0.3</b>	<b>0.8</b>	<b>0.4</b>

## MOBILE RIVER SYSTEM—COOSA RIVER, LOCK NO. 4 (LINCOLN), ALA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	0.5	1.4	2.8	3.8	1.9	1.8	2.0	0.3	0.7	-0.7	-1.0	-0.3
2.....	0.5	1.4	2.4	3.4	1.5	2.3	2.0	0.5	0.3	-0.7	-1.0	-0.3
3.....	0.4	1.4	2.3	3.1	1.4	2.5	1.8	0.6	0.2	-0.7	-0.9	-0.2
4.....	0.4	1.3	2.5	2.8	1.3	2.7	1.5	1.3	0.1	-0.7	-0.8	-0.1
5.....	0.3	1.3	2.8	2.6	1.2	2.1	0.9	2.5	0.0	-0.7	-0.6	0.9
6.....	0.3	1.2	2.6	2.4	1.1	1.4	0.6	2.7	0.0	-0.7	-0.4	2.1
7.....	0.3	1.2	3.3	2.3	1.1	0.9	0.9	3.2	0.0	-0.7	-0.3	3.1
8.....	0.4	2.3	4.4	3.2	1.2	0.9	1.5	4.2	0.2	-0.7	-0.3	3.5
9.....	0.3	3.1	5.0	3.7	1.2	1.0	1.0	3.0	0.1	-0.7	-0.3	3.6
10.....	0.3	3.3	5.4	5.1	1.4	1.1	0.7	3.8	0.0	-0.7	-0.3	2.8
11.....	0.4	3.8	5.0	5.4	1.6	1.3	0.5	7.0	-0.1	-0.7	-0.4	1.9
12.....	0.4	4.1	4.3	5.0	2.0	1.0	0.7	5.6	-0.2	-0.7	-0.4	1.3
13.....	0.4	3.6	3.8	4.0	1.8	0.6	0.6	4.0	-0.3	-0.7	-0.5	0.9
14.....	0.4	3.3	4.3	3.2	1.5	0.4	0.5	3.0	-0.3	-0.8	-0.5	0.7
15.....	0.5	2.8	7.0	2.8	1.3	0.2	0.3	2.6	-0.3	-0.8	-0.5	0.6
16.....	0.5	2.4	8.0	2.4	0.9	0.1	0.5	2.0	-0.4	-0.8	-0.5	0.5
17.....	0.7	2.1	7.5	2.1	0.8	0.1	0.8	1.9	-0.4	-0.8	-0.5	0.4
18.....	1.1	1.8	6.2	2.0	0.7	0.1	0.5	1.6	-0.4	-0.8	-0.3	0.3
19.....	1.2	1.8	4.9	2.0	0.7	0.1	1.1	1.3	-0.4	-0.8	-0.2	0.2
20.....	1.4	2.2	3.9	2.0	0.6	0.0	0.8	1.0	-0.5	-0.9	-0.3	0.2
21.....	1.6	2.8	3.2	1.8	0.6	0.0	0.7	0.9	-0.5	-0.9	-0.3	0.2
22.....	1.9	3.6	3.0	1.7	0.5	0.0	0.5	0.8	-0.6	-0.9	-0.3	0.1
23.....	4.4	5.0	3.2	1.7	0.5	0.1	0.3	0.6	0.1	-0.9	-0.3	0.1
24.....	5.3	5.8	5.7	1.6	0.5	0.6	0.3	0.4	-0.2	-0.9	-0.3	0.1
25.....	5.6	6.5	6.6	1.6	0.4	0.6	0.2	0.5	-0.4	-0.9	-0.3	0.2
26.....	5.3	6.1	7.4	1.5	0.3	0.5	0.2	0.5	-0.5	-0.9	-0.3	0.6
27.....	4.2	4.9	7.0	1.7	0.3	0.3	0.2	0.5	-0.6	-1.0	-0.2	0.8
28.....	3.2	3.8	6.6	1.9	0.3	0.1	0.2	1.3	-0.6	-1.0	-0.1	2.6
29.....	2.2	3.2	5.8	1.9	0.2	0.5	0.5	1.2	-0.6	-1.0	-0.2	4.4
30.....	1.8	.....	5.0	2.1	0.2	1.0	0.2	1.0	-0.7	-1.0	-0.3	5.1
31.....	1.5	.....	4.4	.....	1.1	.....	0.2	1.0	.....	-1.0	.....	5.4
Means.	1.5	3.0	4.7	2.7	1.0	0.8	0.7	2.0	-0.2	-0.8	-0.4	1.3

## MOBILE RIVER SYSTEM—COOSA RIVER, WETUMPKA, ALA.

1900												
1.....	6.9	5.7	17.7	14.1	12.0	4.7	28.4	12.3	4.1	2.5	5.1	13.1
2.....	6.2	5.5	20.4	12.2	11.2	5.0	24.9	10.0	4.7	2.3	5.4	11.0
3.....	5.8	5.1	19.5	11.0	11.0	5.6	22.1	8.1	7.5	2.2	10.6	9.2
4.....	5.1	5.0	17.1	10.9	11.0	6.1	19.9	6.6	6.1	2.1	13.5	8.0
5.....	4.6	6.8	15.0	10.0	10.0	5.7	17.0	5.9	4.8	2.6	11.3	8.0
6.....	4.4	8.1	13.0	9.7	9.0	5.6	14.4	5.1	3.8	5.0	8.5	8.5
7.....	4.0	8.0	11.6	9.5	8.5	6.0	12.2	4.6	3.2	7.7	7.1	9.4
8.....	3.8	8.0	12.5	9.3	8.0	7.6	10.5	4.1	3.0	7.0	6.2	10.5
9.....	3.7	9.5	18.9	9.3	7.6	13.8	9.0	3.9	2.5	6.7	6.0	10.5
10.....	3.7	13.0	21.1	9.0	7.2	13.4	11.2	3.6	2.4	5.1	5.5	9.2
11.....	4.9	18.2	21.6	9.0	7.0	14.5	10.0	3.5	2.1	5.5	5.0	8.1
12.....	11.5	23.0	21.2	19.1	6.7	14.4	9.0	3.4	2.0	8.4	4.6	7.3
13.....	12.3	38.0	20.0	25.0	6.5	12.4	9.1	3.3	1.9	11.0	4.5	6.7
14.....	12.9	46.4	17.7	25.6	6.2	10.5	10.6	3.1	2.0	9.5	4.1	9.2
15.....	13.4	48.0	14.7	23.2	6.0	8.6	10.5	3.6	17.0	8.0	3.9	11.0
16.....	13.0	45.7	13.5	19.4	5.6	8.4	8.9	3.7	19.0	7.3	3.9	10.0
17.....	11.7	42.5	13.7	17.5	5.5	9.3	8.0	3.8	18.4	6.0	3.9	8.5
18.....	10.3	39.0	13.3	31.0	5.3	10.7	7.0	4.3	17.7	5.5	3.7	7.5
19.....	10.0	35.2	12.5	36.0	5.4	10.0	6.7	4.0	14.6	5.1	3.5	6.7
20.....	14.0	31.6	17.0	38.0	5.4	11.5	6.4	4.2	11.3	4.2	3.6	8.1
21.....	17.0	28.3	23.0	37.7	5.1	12.4	5.9	4.2	8.3	3.7	4.7	12.9
22.....	18.6	25.0	25.4	35.5	5.2	12.5	5.6	3.7	6.1	3.6	10.4	14.1
23.....	18.5	20.5	25.7	33.7	5.5	12.3	5.2	3.7	4.9	9.6	9.7	14.0
24.....	16.6	17.1	26.7	30.7	6.5	17.8	4.9	4.1	4.1	11.1	8.9	16.7
25.....	14.6	17.6	27.9	29.1	6.4	26.5	4.6	4.0	3.7	10.9	8.5	17.0
26.....	11.3	16.4	28.6	26.0	7.1	31.7	4.9	4.1	3.5	9.8	13.7	15.1
27.....	9.3	14.8	27.9	21.4	6.7	31.5	5.1	4.2	3.1	13.0	15.2	13.2
28.....	8.0	13.0	25.8	17.1	6.2	34.6	7.5	4.5	3.0	12.8	16.5	11.8
29.....	7.3	.....	23.6	14.0	5.9	34.4	8.6	4.5	2.9	9.6	17.0	10.7
30.....	6.6	.....	21.0	12.5	5.6	31.7	12.3	3.8	2.8	7.0	15.4	9.7
31.....	6.0	.....	17.5	.....	5.1	.....	13.6	3.5	.....	5.6	.....	15.7
Means.	9.5		9.5	20.2	7.1	14.3	10.8	4.7	6.4	6.8	8.0	10.7

## MOBILE RIVER SYSTEM—COOSA RIVER, WETUMPKA, ALA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	18.5	12.5	8.5	38.1	10.5	11.1	7.1	3.8	12.2	4.8	2.3	2.9
2.....	19.7	12.5	8.4	37.6	10.0	12.4	6.7	4.1	10.0	5.5	2.4	2.7
3.....	20.0	13.0	8.1	38.4	9.5	16.1	6.4	4.2	8.9	9.5	2.4	3.4
4.....	19.0	28.0	8.5	37.0	9.1	17.5	6.5	3.8	7.9	8.2	2.2	3.6
5.....	16.7	30.5	8.1	33.6	8.7	16.0	6.1	3.4	7.3	7.0	2.6	3.6
6.....	14.3	31.2	7.9	29.8	8.5	13.3	6.0	3.1	6.6	6.2	2.6	3.5
7.....	12.3	30.1	7.6	25.9	8.1	14.0	6.5	3.6	5.8	5.6	2.6	3.6
8.....	10.7	28.2	7.4	21.2	8.0	14.3	6.1	3.5	5.1	5.0	2.6	3.6
9.....	9.8	26.7	7.1	16.7	7.8	11.5	6.0	3.7	4.9	4.3	2.6	4.0
10.....	9.1	26.1	7.6	13.6	7.7	10.4	5.2	6.0	4.6	3.8	2.6	3.9
11.....	9.6	24.5	10.1	12.0	7.4	10.5	7.0	7.0	4.4	3.5	2.2	3.7
12.....	32.7	23.5	11.1	11.1	7.1	9.5	6.1	6.1	4.1	3.5	2.6	3.7
13.....	37.6	22.5	13.6	10.7	7.4	8.4	5.0	5.1	4.0	3.5	2.6	3.6
14.....	39.5	20.3	14.3	12.3	7.4	7.9	4.3	4.5	4.8	3.6	2.5	4.0
15.....	38.8	17.0	13.6	15.1	7.5	8.3	3.8	5.0	5.6	3.7	2.5	11.0
16.....	36.6	14.2	12.2	16.3	7.0	8.4	3.6	7.0	5.5	3.6	2.5	21.9
17.....	34.5	12.7	11.0	16.6	6.5	8.1	4.4	9.9	5.4	3.7	2.4	22.8
18.....	32.7	11.9	9.6	15.8	6.2	8.2	6.6	11.4	7.2	3.7	2.5	22.0
19.....	30.7	11.4	8.4	27.8	6.0	8.7	7.5	17.0	11.7	4.1	2.7	20.3
20.....	28.2	11.0	9.0	33.6	6.1	8.9	6.2	18.1	12.2	3.8	2.8	18.6
21.....	24.5	10.6	10.5	35.5	8.4	8.1	5.4	19.5	13.0	3.2	2.9	16.4
22.....	18.0	10.1	10.2	34.8	14.4	7.3	6.6	21.1	12.5	3.0	3.0	14.2
23.....	12.6	9.8	9.3	32.8	17.6	6.8	5.7	20.6	10.3	2.9	3.0	11.0
24.....	11.0	9.6	11.8	29.9	19.6	6.2	5.0	23.8	7.6	2.7	3.2	8.2
25.....	11.4	9.6	12.8	26.8	20.6	6.0	4.6	26.0	6.0	2.7	3.1	6.9
26.....	12.0	9.6	20.5	23.6	22.0	5.6	4.2	24.2	5.2	2.6	3.2	6.6
27.....	11.7	9.4	31.0	20.0	22.8	5.4	4.0	22.1	4.7	2.6	3.0	7.4
28.....	12.3	9.0	33.2	15.6	21.6	5.2	3.9	21.0	4.6	2.6	3.0	8.7
29.....	12.9	.....	33.0	12.5	20.4	5.0	3.5	20.6	5.0	2.5	3.2	19.7
30.....	12.4	.....	31.6	11.2	17.5	5.7	3.4	18.8	5.0	2.5	3.1	33.6
31.....	12.3	.....	38.1	.....	12.6	.....	3.5	15.6	.....	2.4	.....	44.8
<b>Means.</b>	<b>20.1</b>	<b>17.3</b>	<b>14.0</b>	<b>23.5</b>	<b>11.4</b>	<b>9.5</b>	<b>5.4</b>	<b>11.7</b>	<b>7.1</b>	<b>4.1</b>	<b>2.7</b>	<b>11.1</b>
<b>1902</b>												
1.....	45.6	20.2	42.6	45.1	8.6	3.9	1.7	1.5	3.8	6.6	1.4	7.0
2.....	43.5	29.9	47.0	42.1	7.6	4.6	1.7	1.5	4.3	5.6	1.3	6.7
3.....	40.8	36.0	45.0	38.9	7.3	4.6	1.6	1.8	4.1	4.7	1.1	11.4
4.....	37.1	38.1	42.4	35.8	7.1	4.1	1.6	2.3	3.5	4.3	1.1	12.4
5.....	33.8	37.8	39.9	33.2	7.2	3.9	1.6	2.1	2.6	3.7	1.4	13.6
6.....	31.1	35.1	38.2	29.5	7.4	3.6	1.4	2.0	2.1	3.2	3.3	14.0
7.....	29.0	32.0	36.1	23.3	7.0	3.5	1.5	1.9	2.0	2.9	5.4	13.5
8.....	26.7	28.6	33.8	21.5	6.8	3.4	1.6	1.8	2.2	2.4	5.3	11.8
9.....	20.1	24.3	31.4	20.9	6.6	3.5	1.8	2.5	2.1	2.0	4.0	9.7
10.....	12.1	17.8	28.3	19.2	6.6	3.3	2.0	2.6	2.0	1.5	3.3	7.9
11.....	9.5	12.9	22.9	17.4	6.3	3.2	1.9	2.0	1.9	2.7	2.9	6.5
12.....	8.6	11.2	17.2	15.8	5.9	3.1	2.6	1.8	1.5	7.3	3.0	5.7
13.....	8.1	10.4	15.6	14.3	5.6	3.5	2.5	1.9	1.2	7.4	2.5	5.1
14.....	7.6	9.8	15.1	13.0	5.5	3.6	2.3	1.8	1.0	6.7	2.0	4.8
15.....	7.1	10.0	15.3	12.3	6.0	3.1	2.5	1.4	1.0	6.0	1.8	4.4
16.....	6.9	11.5	17.0	11.3	7.8	2.9	2.6	1.2	1.1	5.0	1.6	9.0
17.....	6.6	12.0	27.0	11.3	9.0	2.7	2.8	1.0	1.0	4.1	1.5	20.3
18.....	6.4	11.3	29.6	12.1	8.5	2.6	3.0	1.0	1.0	3.8	2.0	21.5
19.....	6.7	10.7	30.1	12.0	8.3	2.6	2.9	1.0	1.1	3.0	2.6	20.7
20.....	7.0	10.5	27.0	11.5	8.0	2.6	3.4	0.9	1.5	2.4	2.8	16.4
21.....	7.7	10.8	23.2	11.3	6.9	2.6	3.3	0.8	1.1	2.6	2.6	12.6
22.....	10.0	10.9	20.4	10.2	6.0	2.8	2.6	0.9	1.0	2.3	2.5	13.2
23.....	12.3	10.6	17.7	10.0	5.7	2.7	2.0	1.0	0.8	2.1	2.6	15.0
24.....	12.6	10.3	15.4	9.4	5.4	2.7	1.6	0.9	0.5	1.7	2.9	15.0
25.....	11.8	11.0	19.8	9.1	5.1	2.7	1.4	0.8	0.9	1.4	2.7	14.0
26.....	11.0	12.0	20.0	8.9	4.9	2.5	1.3	1.0	1.1	1.3	7.1	12.5
27.....	10.2	12.4	20.0	8.5	4.6	2.5	1.1	1.5	1.6	1.1	7.9	10.8
28.....	10.6	34.6	42.4	8.1	4.4	2.2	1.1	1.6	1.6	2.0	6.7	8.9
29.....	14.4	.....	45.6	8.0	4.2	2.0	1.1	1.9	3.4	3.0	6.5	7.6
30.....	15.0	.....	46.5	7.8	4.0	1.7	1.0	3.1	6.5	3.0	7.3	7.4
31.....	15.8	.....	47.1	.....	4.0	.....	1.1	5.1	.....	2.1	.....	8.4
<b>Means.</b>	<b>17.0</b>	<b>18.7</b>	<b>29.7</b>	<b>17.7</b>	<b>6.4</b>	<b>3.1</b>	<b>2.0</b>	<b>1.7</b>	<b>2.0</b>	<b>3.5</b>	<b>3.3</b>	<b>11.3</b>

## DESCRIPTION OF RIVER GAGES, ETC.

MOBILE RIVER SYSTEM—COOSA RIVER, WETUMPKA, ALA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	8.9	7.8	37.5	30.5	9.0	9.0	9.5	7.0	3.0	1.4	1.3	1.8
2.....	9.0	7.9	39.5	31.2	8.7	11.5	9.8	7.5	2.5	1.4	1.6	1.6
3.....	11.4	8.0	39.6	30.7	8.5	14.1	9.7	7.3	2.4	1.3	1.5	1.5
4.....	12.5	8.2	38.0	29.3	8.8	13.8	7.5	7.1	2.6	1.3	1.4	1.6
5.....	12.0	11.0	36.3	28.0	8.1	13.3	7.1	6.1	2.0	1.3	1.6	1.6
6.....	11.4	16.5	34.4	26.6	7.8	15.0	7.1	5.7	1.9	1.1	1.8	1.8
7.....	10.8	18.8	33.1	25.0	7.8	16.1	7.1	6.8	1.8	1.1	2.0	1.9
8.....	10.0	41.4	31.9	21.9	9.5	17.5	8.0	7.1	1.7	1.3	2.4	1.8
9.....	9.0	44.1	31.0	19.6	9.8	17.7	8.3	7.9	1.7	2.0	2.7	1.9
10.....	8.0	45.9	29.3	21.3	9.8	18.0	8.2	7.6	1.6	1.9	3.0	2.0
11.....	7.8	45.6	26.3	21.9	8.9	15.5	7.2	6.4	1.5	2.0	3.0	2.0
12.....	12.0	47.0	23.4	19.8	8.4	13.0	6.7	5.1	1.6	1.7	2.6	2.0
13.....	12.5	46.7	21.9	17.2	12.4	10.8	6.5	4.3	1.4	1.6	2.5	2.0
14.....	12.6	45.1	22.4	17.1	14.2	9.3	6.2	3.9	1.4	2.0	2.5	2.3
15.....	12.5	42.8	24.0	19.1	20.4	9.1	6.4	3.7	1.6	2.0	2.4	2.2
16.....	12.0	39.1	24.5	20.4	28.0	8.6	8.6	4.2	1.8	1.8	2.3	2.1
17.....	10.5	42.4	23.5	20.3	29.0	7.6	11.0	5.6	3.4	1.6	2.1	2.0
18.....	9.2	44.5	20.9	19.0	24.5	7.0	10.0	6.6	4.0	1.6	2.5	1.8
19.....	8.3	44.7	18.0	16.6	16.6	6.5	7.8	7.1	3.4	1.7	2.5	1.8
20.....	7.6	42.7	15.7	14.1	11.5	6.1	6.7	8.3	2.6	1.6	2.3	2.0
21.....	7.1	40.0	14.1	18.4	9.9	6.1	5.5	6.5	3.1	1.5	2.2	2.3
22.....	6.8	36.8	14.3	16.6	8.9	7.3	4.9	5.4	3.0	1.9	2.0	2.5
23.....	6.5	33.3	18.1	13.3	8.4	8.0	4.5	4.9	2.6	2.0	2.4	2.4
24.....	6.1	30.3	23.1	12.0	7.8	7.3	4.4	4.4	2.1	2.2	2.8	2.3
25.....	6.1	26.3	25.3	11.2	7.4	6.3	4.5	3.9	1.9	1.8	2.6	2.6
26.....	6.0	19.6	26.0	10.3	7.2	6.4	5.0	3.4	1.8	1.6	2.2	3.9
27.....	5.9	13.7	25.7	10.3	6.8	9.4	5.1	3.0	1.6	1.4	2.0	4.5
28.....	6.9	31.0	24.4	10.0	6.6	10.6	4.9	2.7	1.6	1.3	2.0	4.0
29.....	7.5	.....	23.4	9.5	6.3	9.4	4.1	2.5	1.5	1.1	1.8	3.4
30.....	8.0	.....	24.5	9.3	6.5	9.1	3.8	2.6	1.5	1.1	1.8	3.0
31.....	7.9	.....	28.1	.....	7.7	.....	4.0	2.6	.....	1.4	.....	2.6
<b>Means.</b>	<b>9.1</b>	<b>31.5</b>	<b>26.4</b>	<b>19.0</b>	<b>11.1</b>	<b>10.6</b>	<b>6.8</b>	<b>5.4</b>	<b>2.2</b>	<b>1.6</b>	<b>2.2</b>	<b>2.3</b>
<b>1904</b>												
1.....	2.6	5.1	7.8	7.9	4.2	4.1	5.4	4.3	3.1	0.1	-0.5	0.8
2.....	2.5	5.0	7.0	7.2	4.1	4.8	4.3	5.7	3.0	0.0	-0.5	0.8
3.....	2.5	5.0	6.6	6.6	3.7	5.0	4.5	5.5	2.4	0.0	-0.4	0.9
4.....	2.2	5.0	6.6	6.0	3.4	4.6	3.9	5.8	2.0	-0.1	-0.1	1.2
5.....	2.1	4.8	6.4	5.7	3.3	4.6	3.7	4.2	1.8	-0.1	0.0	1.5
6.....	2.1	4.9	6.4	5.4	3.0	4.3	3.5	7.5	1.9	-0.2	-0.1	1.9
7.....	2.0	6.5	7.6	5.3	2.9	3.6	2.8	9.7	1.5	-0.1	-0.2	3.5
8.....	2.3	10.0	10.8	5.8	2.9	3.2	2.1	21.0	2.0	0.0	-0.2	5.0
9.....	2.4	12.6	11.3	7.3	2.8	3.9	2.5	24.3	1.6	0.0	0.0	5.9
10.....	3.1	12.5	11.0	8.5	3.0	2.9	3.1	21.6	1.5	-0.1	0.1	6.3
11.....	5.2	16.2	10.7	8.4	2.8	2.6	2.7	16.8	1.4	-0.1	0.0	5.6
12.....	5.1	16.0	9.8	9.0	2.6	2.6	2.6	15.6	1.1	-0.1	0.1	4.5
13.....	4.5	15.4	8.7	8.7	2.8	2.5	2.7	14.2	0.9	-0.2	0.1	3.5
14.....	4.1	13.0	8.1	7.6	3.5	2.0	4.4	10.0	1.0	-0.2	0.1	2.8
15.....	3.6	10.7	9.0	6.5	3.2	1.6	3.0	8.1	0.8	-0.2	0.0	2.3
16.....	3.2	9.0	11.4	5.6	2.9	1.3	2.1	7.6	0.6	-0.2	0.1	2.2
17.....	3.7	7.5	12.8	5.1	2.5	1.0	1.5	7.3	0.0	-0.2	0.0	2.0
18.....	5.5	6.7	12.3	4.8	2.4	0.9	1.5	6.5	0.4	-0.2	-0.1	1.9
19.....	5.8	6.3	11.0	4.5	2.2	0.9	1.8	5.6	0.3	-0.3	-0.1	1.6
20.....	5.2	6.9	9.4	4.4	2.1	0.7	1.5	5.0	0.3	-0.3	0.1	1.5
21.....	4.7	8.0	8.2	4.1	2.0	0.9	2.2	4.1	0.3	-0.3	0.3	1.3
22.....	5.0	8.6	7.3	4.1	1.9	0.6	2.0	3.5	0.1	-0.4	0.5	1.3
23.....	12.5	10.6	6.6	4.0	1.7	0.6	2.1	3.0	0.1	-0.4	0.9	1.3
24.....	12.6	12.0	6.3	3.8	1.6	0.6	2.7	2.9	0.1	-0.4	1.0	1.2
25.....	11.6	12.0	8.4	3.7	1.5	1.0	2.2	2.6	0.6	-0.3	1.1	1.6
26.....	10.9	12.0	10.0	3.5	1.5	1.3	2.0	3.5	1.5	-0.4	1.2	2.3
27.....	9.9	11.4	11.2	3.6	1.4	1.5	1.5	4.7	1.0	-0.4	0.9	2.3
28.....	8.6	10.1	11.0	3.6	1.1	1.4	1.9	4.8	0.5	-0.3	0.7	5.9
29.....	7.4	8.8	10.5	3.9	1.1	1.6	2.4	5.4	0.3	-0.5	0.5	7.6
30.....	6.1	.....	9.6	4.1	1.0	6.2	2.7	4.6	0.2	-0.4	0.8	8.2
31.....	5.5	.....	8.6	.....	2.3	.....	3.0	4.0	.....	-0.5	.....	9.0
<b>Means.</b>	<b>5.3</b>	<b>9.4</b>	<b>9.1</b>	<b>5.6</b>	<b>2.5</b>	<b>2.4</b>	<b>2.7</b>	<b>8.0</b>	<b>1.1</b>	<b>-0.2</b>	<b>0.2</b>	<b>3.2</b>

## MOBILE RIVER SYSTEM—TALLAPOOSA RIVER, TALLASSEE, ALA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	1.4	1.2	3.0	2.1	2.0							1.4
2.....	1.4	1.1	2.8	2.0	2.1							1.3
3.....	1.3	1.0	3.0	2.0	2.0							1.1
4.....	1.2	1.0	2.6	1.9	1.9							1.8
5.....	1.0	1.6	2.4	1.9	1.9							1.6
6.....	0.9	1.6	2.0	1.8	1.8							1.5
7.....	0.9	1.7	2.0	1.8	1.7							1.5
8.....	0.9	1.5	3.8	1.8	1.6							1.4
9.....	0.8	2.4	4.6	1.7	1.6							1.2
10.....	0.8	2.8	4.0	1.7	1.5							1.1
11.....	1.1	5.0	3.0	1.7	1.3							1.1
12.....	2.6	7.7	2.6	3.0	1.2							1.0
13.....	2.2	12.5	2.4	3.9	1.2							1.0
14.....	1.8	13.8	2.1	3.0	1.2							3.8
15.....	1.7	6.5	2.0	2.9	1.1							2.9
16.....	1.5	5.0	2.6	2.8	1.1							2.4
17.....	1.4	3.3	2.2	2.4	1.1							1.9
18.....	1.3	2.5	2.0	4.2	1.0							1.6
19.....	1.6	2.0	2.0	4.5	1.0							1.5
20.....	3.5	1.8	3.0	3.8	1.0							2.8
21.....	3.2	2.0	3.8	4.2	0.9							4.5
22.....	2.5	1.9	3.3	3.5	0.9							3.8
23.....	1.9	3.0	2.6	3.0	0.8							3.8
24.....	1.7	2.5	4.1	3.1	1.3							3.8
25.....	1.5	3.0	3.8	4.3	1.1							2.8
26.....	1.5	2.8	3.6	3.0	1.1							2.2
27.....	1.4	2.4	3.6	2.6	1.3							2.0
28.....	1.4	2.1	3.1	2.3	1.1							1.8
29.....	1.4		2.8	2.2	1.1							1.7
30.....	1.4		2.6	2.2	1.0							2.2
31.....	1.3		2.2		1.0							4.0
<b>Means.</b>	<b>1.6</b>	<b>3.4</b>	<b>2.9</b>	<b>2.7</b>	<b>1.3</b>							<b>2.1</b>
<b>1901</b>												
1.....	5.0	2.2	1.9	6.0	1.7	3.3						0.7
2.....	5.1	2.2	1.9	5.4	1.6							0.7
3.....	4.5	2.3	1.8	6.0	1.6							0.8
4.....	3.8	8.0	1.8	5.2	1.6							0.9
5.....	3.4	6.6	1.8	3.7	1.6							0.9
6.....	3.0	5.0	1.8	3.0	1.6							1.0
7.....	2.4	4.3	1.7	2.7	1.6							1.0
8.....	2.1	3.5	1.6	2.5	1.6							1.0
9.....	2.0	4.1	1.6	2.3	1.5							1.0
10.....	2.0	3.8	1.7	2.1	1.5							1.0
11.....	2.4	3.0	2.4	2.1	1.5							1.0
12.....	8.0	3.0	2.1	2.0	1.5							1.0
13.....	8.0	2.9	2.0	2.1	1.5							1.0
14.....	6.0	2.7	2.0	3.7	1.5							1.0
15.....	4.9	2.6	1.8	3.0	1.6							3.0
16.....	3.5	2.5	1.6	3.0	1.6							4.0
17.....	3.9	2.5	1.6	2.8	1.6							2.9
18.....	3.8	2.4	1.6	2.5	1.5							2.3
19.....	3.4	2.4	1.6	6.0	1.5							1.7
20.....	2.9	2.2	1.6	6.3	1.5							1.6
21.....	2.5	2.1	2.6	4.4	3.6							1.6
22.....	2.0	1.9	2.1	3.6	5.1							1.5
23.....	2.0	2.0	2.0	2.9	4.3							1.4
24.....	2.0	2.0	3.3	2.6	3.8							2.3
25.....	2.4	2.0	2.7	2.4	3.5							0.7
26.....	2.2	2.0	2.8	2.0	4.0							1.0
27.....	2.1	2.0	5.0	1.7	2.8							1.1
28.....	2.1	1.9	5.1	1.7	2.6							1.1
29.....	2.0		4.5	1.7	2.6							15.0
30.....	2.2		3.0	1.7	2.6							20.6
31.....	2.2		10.0		2.6							7.0
<b>Means.</b>	<b>3.3</b>	<b>3.0</b>	<b>2.6</b>	<b>3.2</b>	<b>2.2</b>							<b>2.6</b>

a 6.4 at 2 p. m.

## DESCRIPTION OF RIVER GAGES, ETC.

## MOBILE RIVER SYSTEM—TALLAPOOSA RIVER, TALLASSEE, ALA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1902												
1	6.5	4.7	15.0	5.5								
2	5.5	9.0	10.0	4.8								
3	3.3	8.8	7.0	4.5								
4	2.0	6.0	5.2	4.0								
5	1.6	5.6	5.0	4.1								
6	1.3	3.7	4.8	4.0								
7	1.3	3.1	4.3	3.8								
8	1.2	3.0	4.0	5.5								
9	1.2	2.9	4.0	4.4								
10	1.2	2.6	3.8	4.0								
11	1.1	2.5	3.7	3.8								
12	1.0	2.4	3.5	3.6								
13	1.0	2.2	3.9	3.3								
14	1.0	2.2	4.0	3.1								
15	1.0	2.6	4.8	3.0								
16	0.9	3.0	5.2	3.0								
17	0.8	2.6	8.0	2.8								
18	0.8	2.4	5.5	2.6								
19	0.8	2.2	5.0	3.6								
20	0.8	2.4	4.0	3.0								
21	0.9	2.2	3.8	2.6								
22	1.0	2.2	4.4	2.4								
23	1.0	2.2	4.0	2.0								
24	1.0	2.1	4.0	1.8								
25	1.0	2.6	5.5	2.0								
26	1.0	2.6	4.7	2.0								
27	1.0	2.4	4.5	1.8								
28	1.1	14.0	14.5	1.6								
29	1.1		14.0	1.6								
30	1.6		11.3	1.6								
31	3.3		6.9									
Means	1.6	3.7	6.1	3.2								

## MOBILE RIVER SYSTEM—TALLAPOOSA RIVER, MILSTEAD, ALA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1902												
1						2.3	1.3		0.4	4.3		
2						3.8	1.2		3.8	0.4		
3						2.9	1.1		2.6	3.8		
4						2.5	0.1		2.2	3.3		13.4
5						2.3	0.1		1.9	3.2		10.9
6						2.2	1.3		1.7	0.3		8.0
7						2.1	1.3		1.6	1.8		6.0
8						2.4	1.4		1.5	1.7		4.4
9						2.3	1.4		1.5	1.5		3.5
10						2.1	1.5		1.4	1.3		3.1
11						2.1	1.4		1.3	1.5		2.9
12						2.1	2.1		1.2	1.4		2.7
13						2.0	1.7		1.5	1.8		2.6
14						1.9	1.6		1.2	2.0		2.6
15					6.8	1.8	1.5		1.2	2.1		2.5
16					5.8	1.7	2.3		1.1	2.3		9.6
17					5.7	1.7	2.5		1.1	2.0		25.3
18					5.6	1.8	2.2		0.1	0.1		10.2
19					4.7	1.9	2.2		0.1	0.9		12.6
20					4.4	1.8	2.6		0.1	0.8	2.7	7.7
21					4.0	1.7	2.2		0.1	0.7	2.6	5.5
22					3.3	1.6	1.6		0.1	0.2	2.2	6.8
23					3.0	1.7	1.5		0.9	0.1	2.0	7.9
24					3.0	1.6	1.4		1.2	0.9	2.1	6.8
25					2.8	1.5	1.2		1.3	0.8	2.1	5.0
26					2.7	1.4	1.1		1.9	0.1	12.9	4.2
27					2.6	1.3	1.2		1.8	1.6	8.5	3.6
28					2.6	1.2	1.1		2.5		4.3	3.3
29					2.6	1.3	1.1		3.2		3.3	3.0
30					2.5	1.3	1.3		0.4		2.3	3.5
31					2.3		1.2					4.5
Means					3.8	1.9	1.5		1.4	1.5		6.5

## DESCRIPTION OF RIVER GAGES, ETC.

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## MOBILE RIVER SYSTEM—TALLAPOOSA RIVER, MILSTEAD, ALA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	5.1	3.5	37.7	21.5	-----	-----	-----	-----	-----	-----	1.5	1.7
2.....	4.4	3.2	32.6	18.7	-----	-----	-----	-----	-----	-----	1.6	1.8
3.....	6.4	3.0	23.6	13.5	-----	-----	-----	-----	-----	-----	1.6	1.8
4.....	5.4	3.5	11.2	10.2	-----	-----	-----	-----	-----	-----	1.6	1.8
5.....	4.9	5.0	14.1	9.0	-----	-----	-----	-----	-----	-----	1.9	1.8
6.....	4.4	6.6	12.0	8.3	-----	-----	-----	-----	-----	-----	1.8	1.8
7.....	3.8	5.6	11.5	7.6	-----	-----	-----	-----	-----	-----	2.0	1.8
8.....	3.6	36.5	10.8	8.9	-----	-----	-----	-----	-----	-----	1.9	1.9
9.....	3.2	44.5	10.5	11.7	-----	-----	-----	-----	-----	-----	1.8	1.9
10.....	3.0	34.0	10.1	16.0	-----	-----	-----	-----	-----	-----	1.7	2.1
11.....	3.2	27.1	10.0	13.4	-----	-----	-----	-----	-----	-----	1.7	2.1
12.....	6.9	37.8	12.0	9.5	-----	-----	-----	-----	-----	-----	1.7	2.1
13.....	6.8	32.7	10.3	8.9	-----	-----	-----	-----	-----	-----	1.8	2.1
14.....	6.0	22.6	11.1	13.3	-----	-----	-----	-----	-----	-----	2.1	2.1
15.....	4.7	14.9	9.7	11.5	-----	-----	-----	-----	-----	-----	1.9	2.0
16.....	4.0	11.0	9.2	9.7	-----	-----	-----	-----	-----	-----	1.8	1.9
17.....	3.7	22.7	9.2	8.0	-----	-----	-----	-----	-----	-----	1.8	1.9
18.....	3.5	33.9	8.0	7.4	-----	-----	-----	-----	-----	-----	2.0	1.9
19.....	3.4	27.0	7.5	6.5	-----	-----	-----	-----	-----	-----	2.0	1.9
20.....	3.2	22.0	6.9	6.4	-----	-----	-----	-----	-----	-----	1.9	2.0
21.....	3.1	14.4	6.7	17.2	-----	-----	-----	-----	-----	-----	1.8	2.2
22.....	3.0	9.4	8.3	9.8	-----	-----	-----	-----	-----	-----	1.8	2.4
23.....	2.9	8.0	12.5	8.4	-----	-----	-----	-----	-----	-----	1.8	2.5
24.....	2.8	7.2	20.5	6.3	-----	-----	-----	-----	-----	-----	1.8	2.3
25.....	3.0	6.8	19.9	5.8	-----	-----	-----	-----	-----	-----	1.8	2.1
26.....	3.1	6.4	16.5	5.9	-----	-----	-----	-----	-----	-----	1.8	2.2
27.....	3.0	6.2	21.4	6.2	-----	-----	-----	-----	-----	-----	1.8	3.3
28.....	3.7	25.0	8.7	5.4	-----	-----	-----	-----	-----	-----	1.7	2.8
29.....	4.5	-----	8.5	5.2	-----	-----	-----	-----	-----	-----	1.7	2.5
30.....	4.2	-----	19.4	4.8	-----	-----	-----	-----	-----	-----	1.7	2.4
31.....	3.9	-----	23.7	-----	-----	-----	-----	-----	-----	-----	-----	2.3
<b>Means.</b>	<b>4.1</b>	<b>17.2</b>	<b>14.0</b>	<b>9.8</b>	-----	-----	-----	-----	-----	-----	<b>1.8</b>	<b>2.1</b>
<b>1904</b>												
1.....	2.1	2.9	3.3	2.5	-----	-----	3.2	3.6	1.9	0.8	0.3	1.2
2.....	2.0	2.9	3.3	2.5	-----	-----	2.3	3.0	1.7	0.8	0.3	1.2
3.....	2.0	2.9	3.3	2.4	-----	-----	1.9	3.0	1.6	0.8	0.3	1.6
4.....	2.1	2.9	4.0	2.4	-----	-----	1.8	2.6	1.5	0.8	0.2	2.0
5.....	2.1	2.9	4.2	2.3	-----	-----	2.3	3.7	1.5	0.8	0.2	2.3
6.....	2.0	3.0	3.4	2.3	-----	-----	1.7	7.5	1.5	0.6	0.4	2.6
7.....	2.0	5.0	6.2	2.4	-----	-----	1.6	9.5	2.1	0.6	0.1	2.6
8.....	2.2	9.8	9.1	2.6	-----	-----	1.6	25.5	1.8	0.6	0.1	2.6
9.....	2.3	11.1	9.6	5.8	-----	-----	1.7	30.8	1.6	1.0	0.2	2.2
10.....	2.5	9.8	5.4	3.8	-----	-----	1.6	17.1	1.5	1.2	0.2	2.1
11.....	5.5	13.8	4.1	3.1	-----	-----	1.5	12.5	1.4	0.6	0.2	1.9
12.....	4.2	11.2	3.7	2.5	-----	-----	1.4	12.1	1.3	0.1	0.2	1.7
13.....	3.4	11.2	3.3	2.3	-----	-----	2.5	7.7	1.2	0.4	0.2	1.5
14.....	3.0	7.5	3.2	2.1	-----	-----	2.6	4.7	1.2	0.5	0.2	1.5
15.....	2.8	5.6	4.2	2.0	-----	-----	1.7	3.6	1.1	0.5	0.2	1.5
16.....	2.5	4.5	4.1	2.0	-----	-----	1.3	4.5	0.9	0.6	0.2	1.4
17.....	3.8	3.8	4.3	1.9	-----	-----	1.3	5.0	0.9	0.8	0.2	1.4
18.....	5.5	3.1	4.2	1.9	-----	-----	1.1	3.8	0.9	0.5	0.2	1.4
19.....	4.4	3.6	3.7	1.8	-----	-----	1.1	4.0	1.1	0.3	0.3	1.4
20.....	4.0	4.3	3.2	1.8	-----	-----	1.6	2.8	0.9	0.3	0.3	1.4
21.....	3.0	4.8	3.1	1.8	-----	-----	1.7	2.4	0.8	0.3	0.3	1.4
22.....	2.8	4.9	3.0	1.8	-----	-----	1.6	2.2	0.7	0.2	1.2	1.4
23.....	3.2	8.9	2.9	1.8	-----	-----	1.3	2.0	0.8	0.2	1.2	1.4
24.....	9.8	8.4	2.9	1.8	-----	-----	2.0	1.9	1.3	0.1	1.6	1.4
25.....	7.8	7.3	2.8	1.9	-----	-----	2.2	1.8	2.0	0.6	1.8	1.5
26.....	4.6	5.3	2.8	1.9	-----	-----	1.6	4.9	1.5	0.4	1.8	1.5
27.....	3.7	4.8	2.9	1.9	-----	-----	1.4	3.3	1.2	0.4	1.6	1.5
28.....	3.1	4.0	2.9	1.9	-----	-----	1.2	7.1	1.1	0.4	1.5	6.4
29.....	3.0	3.5	2.8	1.9	-----	-----	1.5	3.5	1.0	0.3	1.3	6.8
30.....	2.9	-----	2.8	1.9	-----	-----	2.6	2.5	0.9	0.2	1.2	6.9
31.....	2.9	-----	2.6	-----	-----	-----	2.4	2.1	-----	0.2	-----	6.5
<b>Means.</b>	<b>3.5</b>	<b>6.0</b>	<b>3.9</b>	<b>2.3</b>	-----	-----	<b>1.8</b>	<b>6.5</b>	<b>1.3</b>	<b>0.5</b>	<b>0.6</b>	<b>2.3</b>

## DESCRIPTION OF RIVER GAGES, ETC.

## MOBILE RIVER SYSTEM—ALABAMA RIVER, MONTGOMERY, ALA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	4.9	6.0	12.4	14.0	10.2	3.5	29.0	10.6	3.0	1.7	3.7	10.6
2.....	4.3	5.8	17.6	10.8	9.6	3.5	24.8	9.9	3.5	1.6	3.7	9.2
3.....	3.9	5.3	19.0	9.2	9.2	3.9	22.5	6.6	5.7	1.4	4.2	7.0
4.....	3.5	5.0	19.4	8.6	9.2	4.5	20.2	5.3	5.0	1.4	12.6	6.2
5.....	3.2	6.0	14.6	8.1	8.3	4.4	17.2	4.5	4.4	1.5	10.6	5.8
6.....	2.9	6.1	11.8	7.3	7.2	4.4	14.8	3.9	2.9	3.0	8.2	5.6
7.....	2.5	6.1	10.1	7.3	6.6	4.4	12.2	3.3	2.5	4.1	5.7	6.7
8.....	2.2	6.1	10.1	7.3	6.2	5.0	9.8	3.2	2.0	3.9	4.9	7.6
9.....	2.2	6.1	15.3	7.3	5.6	10.0	7.4	3.0	1.8	5.1	4.5	7.8
10.....	2.2	8.0	18.6	7.3	5.6	11.0	6.4	2.6	1.6	3.7	4.0	7.0
11.....	2.8	14.2	19.6	7.3	5.3	12.0	8.4	2.6	1.6	3.4	3.5	6.0
12.....	8.0	20.0	19.5	13.5	5.0	12.0	7.6	2.5	1.4	4.0	3.2	5.1
13.....	10.6	30.0	18.4	20.5	5.0	10.5	7.6	2.4	1.0	8.5	3.0	4.5
14.....	10.6	42.7	16.5	23.5	4.8	9.5	8.0	2.2	1.2	8.0	3.0	6.0
15.....	11.0	<sup>a</sup> 48.2	13.7	24.0	4.6	7.0	9.9	2.2	7.0	6.0	2.7	9.0
16.....	11.0	47.8	11.7	18.8	4.4	6.2	10.0	2.5	16.0	5.2	2.7	8.2
17.....	9.6	44.5	11.9	16.8	4.0	6.9	6.4	2.5	17.2	4.1	2.5	7.1
18.....	8.0	41.2	11.3	23.5	4.0	8.1	5.2	2.7	16.7	3.7	2.5	6.2
19.....	8.0	37.5	10.6	29.0	4.0	8.1	5.0	3.1	15.8	3.4	2.3	5.0
20.....	10.0	33.5	13.3	34.5	4.0	9.0	4.8	3.1	10.2	2.6	2.2	4.8
21.....	12.4	35.5	19.3	36.4	4.0	9.7	4.5	3.0	8.0	2.0	1.7	10.0
22.....	14.6	28.0	22.5	36.5	3.8	10.2	4.0	2.6	4.7	1.9	6.0	12.8
23.....	16.0	23.6	23.5	33.5	3.8	10.2	4.0	2.7	3.5	5.5	7.0	14.0
24.....	15.4	21.0	25.1	31.2	4.6	14.2	3.8	3.0	3.0	8.0	6.6	14.5
25.....	12.9	18.6	26.8	29.3	4.9	22.0	3.6	3.0	2.6	9.4	6.6	14.0
26.....	11.6	14.2	28.1	26.5	5.2	27.4	3.6	3.0	2.4	8.2	9.9	13.4
27.....	7.4	12.8	27.8	22.2	5.0	29.5	3.6	3.0	2.3	9.8	13.0	10.6
28.....	7.0	11.6	25.6	17.8	4.7	30.8	5.2	3.3	2.0	10.6	13.4	9.8
29.....	6.8	.....	23.2	14.6	4.5	<sup>b</sup> 32.8	7.0	3.3	2.0	8.6	13.4	8.8
30.....	6.4	.....	20.5	11.2	4.3	31.8	9.2	3.0	1.7	5.5	11.5	9.0
31.....	6.3	.....	17.5	.....	3.8	.....	11.6	2.9	.....	4.3	.....	10.0
<b>Means.</b>	<b>7.7</b>	<b>20.9</b>	<b>17.9</b>	<b>18.6</b>	<b>5.5</b>	<b>12.1</b>	<b>9.6</b>	<b>3.6</b>	<b>5.1</b>	<b>4.8</b>	<b>6.0</b>	<b>8.5</b>
<b>1901</b>												
1.....	13.5	10.0	7.2	36.5	8.5	10.5	5.0	2.2	12.0	3.0	1.4	1.8
2.....	18.2	10.4	6.8	37.0	8.0	12.0	5.0	2.5	9.5	3.8	1.4	1.6
3.....	19.0	11.0	6.6	37.4	7.7	14.5	4.8	3.0	8.4	6.5	1.4	1.8
4.....	18.8	19.5	6.5	37.2	7.4	15.0	4.8	2.8	5.9	6.7	1.3	2.3
5.....	16.2	27.5	6.4	35.2	7.2	14.5	4.8	2.5	5.2	5.2	1.6	2.2
6.....	13.4	30.0	6.2	31.5	6.9	13.0	4.6	2.3	4.5	4.6	1.7	2.2
7.....	10.6	29.8	6.0	26.0	6.6	11.8	4.8	2.7	3.8	3.6	1.5	2.2
8.....	8.7	28.0	5.8	22.5	6.2	13.0	4.9	2.6	2.8	3.0	1.5	2.2
9.....	8.0	26.8	5.5	17.5	6.0	10.0	4.6	2.4	2.5	2.6	1.5	2.4
10.....	7.0	26.1	6.0	13.5	5.8	8.5	4.4	3.6	2.4	2.5	1.5	2.4
11.....	6.8	25.0	7.8	11.5	5.5	8.0	4.9	4.7	2.2	2.4	1.2	2.3
12.....	23.5	22.0	8.6	9.5	5.5	6.8	4.6	4.3	2.0	2.4	1.2	2.3
13.....	33.0	21.5	10.6	9.0	5.5	6.5	4.2	3.6	2.0	2.4	1.5	2.3
14.....	37.0	19.8	11.5	9.5	5.6	6.0	2.4	3.0	2.8	2.4	1.4	2.3
15.....	<sup>c</sup> 37.6	17.0	11.2	11.5	5.6	5.5	2.2	3.0	4.1	2.4	1.3	6.7
16.....	36.6	14.0	10.2	14.0	5.2	5.5	2.0	4.0	4.0	2.4	1.3	16.5
17.....	35.0	12.6	9.2	15.2	4.7	5.2	2.5	6.8	3.8	2.4	1.3	19.8
18.....	33.0	9.8	8.0	14.2	4.7	5.0	4.8	9.2	4.3	2.4	1.3	19.6
19.....	30.8	9.0	6.8	20.8	4.6	6.5	5.5	12.0	8.3	2.6	1.6	18.0
20.....	27.0	9.1	7.0	29.5	4.6	6.8	5.0	15.5	9.7	2.5	1.8	16.0
21.....	24.5	8.6	8.1	33.8	5.6	6.2	4.8	16.5	10.0	2.3	1.8	14.5
22.....	18.5	8.3	8.0	34.2	10.0	5.6	4.8	17.8	10.5	2.2	1.9	12.3
23.....	12.5	8.0	7.5	33.8	15.0	5.0	4.2	17.9	8.3	2.0	2.0	10.0
24.....	8.8	8.0	8.5	29.8	17.5	4.7	3.8	20.1	6.0	2.0	2.0	6.5
25.....	9.8	7.8	11.5	26.5	18.0	4.5	3.5	23.0	5.0	1.8	2.0	5.1
26.....	9.8	7.7	14.0	23.0	19.0	4.3	3.2	22.5	2.5	1.8	2.0	4.6
27.....	9.8	7.5	24.5	19.5	20.0	4.1	3.0	20.0	2.0	1.7	1.9	5.0
28.....	10.0	7.5	29.8	15.0	19.8	3.9	2.5	18.8	2.0	1.6	1.8	5.5
29.....	10.3	.....	31.0	11.5	18.2	3.7	2.2	18.0	2.5	1.6	1.9	13.5
30.....	10.0	.....	30.5	9.5	15.0	4.5	2.2	17.2	3.0	1.5	1.9	29.8
31.....	9.8	.....	33.5	.....	12.0	.....	2.2	13.5	.....	1.5	.....	<sup>d</sup> 41.9
<b>Means.</b>	<b>18.3</b>	<b>15.8</b>	<b>11.6</b>	<b>22.5</b>	<b>9.4</b>	<b>7.7</b>	<b>3.9</b>	<b>9.6</b>	<b>5.1</b>	<b>2.8</b>	<b>1.6</b>	<b>8.9</b>
	<sup>a</sup> 48.6 at 3 p. m.			<sup>b</sup> 33.2 at 5 p. m.			<sup>c</sup> 37.7 at 12 noon.			<sup>d</sup> 44.4 at 5 p. m.		



## MOBILE RIVER SYSTEM—ALABAMA RIVER, MONTGOMERY, ALA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	45.8	15.0	38.5	47.0	6.7	2.7	1.0	0.4	2.7	6.6	0.5	4.8
2.....	44.9	24.5	46.4	44.5	6.0	2.9	1.0	0.5	2.5	5.6	0.3	4.7
3.....	42.5	32.4	46.7	41.4	5.7	3.0	0.8	0.7	2.5	3.2	0.2	7.2
4.....	39.5	36.5	45.5	38.0	5.3	2.9	0.7	0.9	2.2	2.8	0.1	10.9
5.....	36.0	37.6	41.7	34.5	5.3	2.9	0.6	1.0	1.6	2.4	0.2	11.6
6.....	31.5	36.0	39.0	30.5	5.4	2.5	0.6	0.8	1.1	2.0	1.1	11.8
7.....	28.4	32.8	37.5	25.5	5.3	2.3	0.6	1.0	1.0	1.7	3.8	11.3
8.....	25.6	29.0	34.2	20.5	5.0	2.3	0.6	0.7	1.0	1.3	4.1	9.7
9.....	21.0	25.0	31.4	20.0	4.8	2.3	0.7	1.0	1.0	0.9	3.0	7.6
10.....	15.0	18.6	28.7	18.8	4.9	2.3	0.5	1.4	0.9	0.5	2.1	5.8
11.....	8.6	13.0	23.8	16.0	4.7	2.2	0.5	1.1	0.8	0.8	1.5	4.6
12.....	6.5	9.4	17.8	14.5	4.4	2.1	0.6	0.8	0.6	4.0	1.5	3.8
13.....	6.1	8.0	14.5	12.0	4.2	2.1	0.8	0.7	0.4	4.5	1.3	3.3
14.....	5.6	7.6	14.0	11.5	3.9	2.0	1.2	0.9	0.2	4.4	0.9	3.0
15.....	5.3	7.8	13.8	10.0	4.0	1.8	1.3	0.5	0.1	4.0	0.6	2.7
16.....	5.0	9.0	15.5	9.8	5.3	1.8	1.5	0.5	0.1	3.3	0.5	4.2
17.....	4.8	9.8	23.0	9.0	7.0	1.8	1.5	0.4	0.1	2.7	0.5	17.3
18.....	4.6	9.5	28.3	9.8	7.4	1.6	1.7	0.2	0.0	2.2	0.6	20.6
19.....	4.6	8.5	30.1	10.3	7.4	1.6	1.7	0.2	-0.1	1.6	1.1	21.2
20.....	4.9	8.2	28.2	10.0	7.2	1.6	2.0	0.1	0.3	1.2	1.3	17.5
21.....	5.3	8.4	24.0	9.0	5.6	1.6	2.0	0.0	0.2	1.0	1.3	12.0
22.....	7.0	8.8	20.0	8.7	4.8	1.6	1.6	0.0	0.0	1.0	1.2	10.4
23.....	8.0	8.6	17.5	8.0	4.5	1.6	1.1	0.1	-0.1	1.0	1.1	12.0
24.....	10.2	8.2	14.5	7.5	4.0	1.6	0.8	0.0	-0.2	0.7	1.3	12.5
25.....	9.5	8.8	17.5	7.0	4.0	1.5	0.6	-0.1	0.1	0.4	1.2	11.6
26.....	8.7	9.8	19.5	7.0	3.7	1.5	0.4	0.0	0.0	0.2	3.7	10.2
27.....	8.0	10.2	18.5	6.5	3.4	1.3	0.4	0.3	0.5	0.1	6.3	8.4
28.....	7.9	25.6	32.0	6.2	3.3	1.3	0.3	0.5	0.6	0.2	5.1	6.6
29.....	10.9		41.4	6.0	3.2	1.2	0.3	0.5	0.2	1.5	4.4	5.5
30.....	12.5		45.8	6.0	3.0	1.0	0.2	1.5	3.9	1.7	4.6	5.0
31.....	13.0		47.8		2.7		0.2	3.5		1.1		5.5
<b>Means.</b>	<b>15.7</b>	<b>16.7</b>	<b>28.9</b>	<b>16.8</b>	<b>4.9</b>	<b>2.0</b>	<b>0.9</b>	<b>0.6</b>	<b>0.8</b>	<b>2.1</b>	<b>1.8</b>	<b>9.1</b>
<b>1903</b>												
1.....	6.2	5.4	33.7	28.0	6.9	6.2	6.9	3.9	1.6	0.4	0.3	0.5
2.....	6.4	5.4	38.3	29.5	6.7	8.0	7.4	5.6	1.5	0.3	0.4	0.4
3.....	7.8	5.5	39.7	29.5	6.6	11.0	6.6	5.8	1.3	0.3	0.5	0.4
4.....	9.5	5.5	38.8	28.2	6.8	13.5	5.5	5.0	1.6	0.3	0.6	0.4
5.....	9.4	7.1	37.0	26.3	6.4	11.0	5.4	4.0	1.1	0.3	0.7	0.4
6.....	8.8	12.0	35.5	24.8	5.9	11.6	5.4	3.3	0.9	0.3	0.7	0.4
7.....	8.1	16.0	33.0	23.3	5.8	13.7	5.2	4.0	0.8	0.2	0.8	0.5
8.....	7.4	27.5	31.4	20.9	6.9	15.0	5.8	4.5	0.7	0.3	0.8	0.5
9.....	6.6	39.6	30.7	18.3	7.9	14.9	6.4	5.3	0.7	0.8	0.9	0.6
10.....	5.6	44.5	28.8	18.9	7.7	15.3	6.5	5.3	0.6	0.8	1.4	0.7
11.....	5.3	45.9	26.2	19.0	7.1	13.9	5.8	4.6	0.5	0.7	1.4	0.8
12.....	7.8	47.5	23.0	18.8	6.5	11.5	5.1	3.5	0.4	0.7	1.2	0.9
13.....	9.8	48.5	21.0	15.9	7.7	9.3	4.7	2.6	0.5	0.5	1.1	0.9
14.....	9.9	47.8	20.0	15.5	12.8	7.4	4.5	2.2	0.4	0.6	1.1	0.9
15.....	9.8	45.3	22.4	16.7	18.0	6.9	4.5	2.0	0.5	0.5	1.1	1.0
16.....	9.3	42.0	22.0	18.0	24.6	6.5	5.4	1.8	0.5	0.4	1.0	0.9
17.....	8.2	41.0	21.5	18.9	28.5	5.8	7.7	2.4	1.9	0.5	1.0	0.9
18.....	6.9	43.0	20.0	17.0	26.0	5.2	7.5	4.0	2.3	0.5	1.0	0.8
19.....	6.0	44.7	17.0	14.7	18.5	4.9	5.7	5.5	2.1	0.6	1.0	0.6
20.....	5.3	44.1	15.0	10.7	11.0	4.5	4.5	6.5	1.5	0.6	0.9	0.6
21.....	5.0	42.0	13.5	14.8	8.4	4.3	3.9	5.9	1.5	0.5	0.8	0.9
22.....	4.7	39.0	11.9	15.8	7.3	5.0	3.4	3.8	1.6	0.5	0.8	1.0
23.....	4.4	35.5	15.5	12.9	6.7	6.0	3.0	2.6	1.3	0.4	0.8	1.1
24.....	4.1	31.4	20.0	10.0	6.2	5.8	2.8	2.0	1.1	0.8	0.9	1.0
25.....	4.1	27.3	22.8	9.2	5.8	4.9	2.7	1.6	0.9	0.7	0.9	1.2
26.....	4.0	21.0	24.1	8.5	5.5	4.6	3.3	1.3	0.8	0.5	0.8	1.7
27.....	3.9	14.0	24.1	8.3	5.2	5.3	3.3	1.0	0.6	0.4	0.7	2.6
28.....	4.5	22.4	22.8	7.9	5.0	9.0	3.4	0.7	0.6	0.4	0.6	2.5
29.....	5.2		21.3	7.3	4.8	8.0	2.8	0.5	0.4	0.3	0.6	2.1
30.....	5.5		22.0	7.1	4.8	7.6	2.5	1.5	0.5	0.3	0.5	1.6
31.....	5.5		25.0		5.0		2.5	1.5		0.4		1.3
<b>Means.</b>	<b>6.6</b>	<b>30.4</b>	<b>25.1</b>	<b>17.2</b>	<b>9.5</b>	<b>8.6</b>	<b>4.8</b>	<b>3.4</b>	<b>1.0</b>	<b>0.5</b>	<b>0.8</b>	<b>1.0</b>

\* 46.1 at 3.30 p. m.

\* Maximum stage, 48.5.

## DESCRIPTION OF RIVER GAGES, ETC.

## MOBILE RIVER SYSTEM—ALABAMA RIVER, MONTGOMERY, ALA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	1.1	3.3	5.5	5.3	2.3	2.0	1.3	2.2	1.4	-1.3	-1.9	-0.9
2.....	1.1	2.9	4.8	4.7	2.3	2.9	2.0	3.4	1.2	-1.4	-1.9	-0.9
3.....	1.1	2.8	4.4	4.0	2.0	2.9	1.9	3.6	0.7	-1.5	-1.8	-0.7
4.....	1.1	2.8	4.4	3.7	1.8	2.7	1.9	3.9	0.0	-1.6	-1.7	-0.5
5.....	1.0	2.8	4.3	3.5	1.7	2.5	1.9	3.3	-0.1	-1.6	-1.5	-0.1
6.....	0.9	2.8	4.0	3.3	1.5	2.4	1.9	4.0	0.0	-1.7	-1.5	0.1
7.....	0.8	3.9	4.5	3.2	1.4	2.1	2.0	6.7	-0.2	-1.7	-1.6	0.8
8.....	0.9	5.7	7.9	3.3	1.2	1.7	1.5	12.0	0.2	-1.7	-1.7	2.1
9.....	1.2	10.8	9.0	4.4	1.3	2.0	1.2	21.6	0.0	-1.8	-1.8	2.8
10.....	1.5	11.9	8.6	5.1	1.3	1.7	1.2	21.0	-0.1	-1.8	-1.5	3.2
11.....	2.8	13.7	8.2	5.5	1.2	1.2	1.3	16.5	-0.2	-1.8	-1.5	3.0
12.....	3.6	15.2	7.3	5.9	1.1	1.1	1.2	15.0	-0.3	-1.8	-1.6	2.3
13.....	3.0	15.0	6.2	5.8	1.1	1.0	1.2	13.5	-0.6	-1.8	-1.3	1.5
14.....	2.6	12.7	5.5	5.1	1.7	0.8	2.5	9.5	-0.6	-1.8	-1.4	0.9
15.....	2.1	9.6	5.8	4.2	1.7	0.5	1.8	7.6	-0.7	-1.8	-1.5	0.7
16.....	1.7	7.1	7.7	3.6	1.3	0.3	1.6	4.7	-1.0	-1.8	-1.6	0.3
17.....	1.9	5.5	9.3	3.1	1.2	0.0	0.8	4.1	-1.1	-1.8	-1.5	0.2
18.....	3.3	4.7	9.4	2.8	1.2	-0.1	0.6	3.5	-1.2	-1.8	-1.6	0.1
19.....	3.9	4.2	8.4	2.6	0.9	-0.2	0.5	3.0	-1.2	-1.7	-1.6	0.0
20.....	3.5	4.3	6.9	2.5	0.8	-0.3	0.5	2.8	-1.3	-1.8	-1.5	-0.1
21.....	3.0	5.3	5.8	2.4	0.7	-0.3	0.7	2.6	-1.3	-1.8	-1.3	-0.2
22.....	2.7	5.8	4.8	2.2	0.6	-0.3	0.9	1.8	-1.3	-1.8	-1.0	-0.3
23.....	8.4	7.8	4.2	2.1	0.5	-0.3	0.9	1.6	-1.3	-1.9	-0.9	-0.3
24.....	10.5	9.4	4.1	2.0	0.4	-0.3	1.0	1.1	-1.3	-1.9	-0.8	-0.4
25.....	9.5	9.8	4.7	2.0	0.3	-0.3	1.0	0.8	-1.3	-1.9	-0.4	-0.3
26.....	8.8	9.3	6.5	1.9	0.2	-0.2	0.9	1.7	-1.4	-1.8	-0.5	-0.1
27.....	6.6	8.9	7.6	2.0	0.2	-0.3	0.7	2.6	-0.5	-1.9	-0.6	0.4
28.....	6.3	7.7	8.0	2.1	0.1	0.1	0.5	2.3	-0.8	-1.9	-0.7	2.0
29.....	5.3	7.1	7.5	2.2	0.0	0.1	1.0	2.0	-1.0	-1.9	-0.8	4.6
30.....	4.4	.....	6.8	2.2	-0.1	1.4	1.0	1.9	-1.2	-1.9	-0.9	5.0
31.....	3.6	.....	5.9	.....	0.5	.....	1.4	1.9	.....	-1.9	.....	5.6
Means.	3.5	7.3	6.4	3.4	1.1	0.9	1.3	5.9	-0.6	-1.8	-1.3	1.0

## MOBILE RIVER SYSTEM—ALABAMA RIVER, SELMA, ALA.

1900												
1.....	7.2	4.8	17.2	19.8	15.4	4.8	34.8	14.0	3.9	0.8	2.0	16.0
2.....	6.6	3.6	19.7	16.8	13.9	4.6	33.0	13.0	3.9	0.7	2.0	14.0
3.....	4.3	3.5	22.2	14.0	13.0	4.4	29.8	11.0	3.8	0.6	4.0	11.0
4.....	3.3	3.9	22.0	12.0	12.0	4.2	26.5	9.0	4.5	0.6	9.0	9.0
5.....	3.0	4.7	20.6	10.9	11.8	5.6	23.5	7.0	5.4	0.5	14.0	8.0
6.....	3.0	6.2	17.8	8.0	10.2	5.0	20.2	6.0	5.0	1.0	.....	7.5
7.....	3.0	8.2	15.0	7.8	9.6	4.6	17.0	5.5	4.5	1.8	.....	7.0
8.....	3.0	8.4	13.9	8.9	8.8	4.2	14.0	5.0	4.1	2.5	.....	7.0
9.....	2.7	8.5	14.9	9.6	8.0	6.8	11.5	4.8	3.3	4.0	.....	9.0
10.....	2.7	10.7	18.8	9.5	7.8	11.6	10.0	4.5	1.8	4.2	2.0	9.4
11.....	3.3	16.0	20.9	9.8	7.5	13.5	9.8	3.2	1.0	2.0	2.0	6.0
12.....	7.7	22.2	22.2	12.0	7.3	14.0	10.2	3.0	0.7	2.0	1.9	5.0
13.....	12.4	29.9	22.0	17.7	7.0	13.9	10.0	2.8	0.6	2.5	1.6	2.0
14.....	13.5	38.6	19.9	23.4	6.6	12.8	9.9	2.5	1.0	4.3	1.6	3.2
15.....	14.7	44.0	19.0	25.5	6.4	11.0	9.9	2.5	1.6	6.7	1.0	9.0
16.....	14.0	47.0	16.9	25.0	6.0	9.0	10.0	2.4	11.0	6.0	1.0	11.0
17.....	13.2	48.0	15.3	22.5	5.7	8.9	9.9	2.8	18.0	5.2	1.0	11.0
18.....	12.0	47.9	13.9	23.5	5.5	8.8	9.0	2.7	19.0	2.5	1.0	10.0
19.....	11.1	47.0	14.3	29.0	5.2	8.6	7.0	2.7	19.4	1.0	1.0	6.0
20.....	11.1	44.1	14.6	34.8	5.1	10.0	7.0	2.5	16.0	1.0	1.0	5.1
21.....	13.4	41.6	18.8	39.0	5.0	10.9	6.5	2.3	12.5	0.9	1.0	9.0
22.....	16.9	36.9	23.0	39.8	5.0	12.0	6.5	2.6	10.0	1.0	1.6	14.5
23.....	18.5	33.2	25.5	41.0	4.8	12.9	6.3	3.6	6.0	1.5	6.0	17.0
24.....	18.3	22.6	29.0	40.0	5.5	14.0	6.0	3.8	3.0	6.0	9.0	17.2
25.....	17.0	22.6	30.2	38.5	6.1	17.6	5.8	4.0	1.9	11.5	9.8	17.6
26.....	14.7	21.1	32.7	35.8	6.2	24.5	5.0	3.5	1.6	12.0	9.9	18.0
27.....	13.0	19.0	33.3	32.7	6.6	29.0	4.5	3.5	1.0	11.5	13.0	17.0
28.....	11.2	16.9	32.5	28.5	6.8	32.0	4.4	3.4	1.0	12.3	16.0	14.5
29.....	8.4	.....	30.5	23.0	6.0	33.5	7.5	3.5	0.9	13.0	16.8	12.9
30.....	6.5	.....	27.7	18.0	5.5	35.0	8.0	4.0	0.8	11.0	17.0	11.2
31.....	4.8	.....	24.4	.....	5.0	.....	11.8	4.2	.....	5.0	.....	11.0
Means.	9.5	23.6	21.6	22.6	7.6	12.9	12.4	4.7	5.2	4.4	5.6	10.5

• 22.7 at noon.

## MOBILE RIVER SYSTEM—ALABAMA RIVER, SELMA, ALA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	16.0	13.0	11.3	35.6	12.0	19.0	1.0	2.8	17.0	4.3	1.4	1.8
2.....	21.0	13.0	9.8	36.5	10.4	17.0	2.0	2.6	13.8	4.3	1.4	1.8
3.....	24.0	13.6	9.5	37.4	10.0	16.5	2.4	2.6	10.6	5.0	1.4	1.9
4.....	24.6	17.0	9.3	38.5	9.6	18.5	6.6	2.8	8.8	7.4	1.5	2.2
5.....	24.0	24.9	9.6	38.4	8.2	19.0	6.0	3.0	8.0	7.9	1.5	2.3
6.....	23.0	30.1	9.6	37.2	7.0	19.8	5.6	2.8	7.4	6.4	1.4	2.3
7.....	18.0	33.0	9.4	35.5	7.0	18.5	5.6	6.6	6.0	5.8	1.6	2.4
8.....	15.0	35.1	8.0	33.0	6.8	17.4	5.5	4.6	5.2	5.0	1.6	2.1
9.....	13.3	35.6	7.7	28.0	6.4	16.1	5.5	4.2	4.4	4.3	1.5	2.0
10.....	10.0	35.7	7.9	22.6	6.0	14.8	5.5	3.4	4.4	3.4	1.5	2.2
11.....	8.1	33.0	9.0	17.4	5.0	12.0	5.2	4.0	3.6	2.9	1.5	2.4
12.....	16.5	31.4	10.2	14.0	5.0	11.0	5.2	5.3	3.4	2.8	1.5	2.4
13.....	28.0	31.2	12.0	12.0	4.8	9.5	5.1	6.2	3.2	2.6	1.4	2.4
14.....	34.0	27.0	14.1	11.8	4.5	8.0	4.4	4.4	3.7	2.5	1.4	2.6
15.....	38.0	26.0	15.4	12.0	4.0	7.6	3.7	3.8	4.3	2.2	1.4	5.0
16.....	39.5	20.6	15.0	15.0	3.8	7.0	3.7	6.0	4.0	2.5	1.3	10.0
17.....	40.0	16.9	14.8	16.5	3.4	6.1	3.5	7.4	5.0	2.5	1.3	18.0
18.....	39.0	14.6	12.0	17.3	3.2	6.0	4.3	11.0	5.0	2.4	1.3	21.6
19.....	37.5	13.1	11.1	22.0	3.0	5.0	6.3	12.0	5.5	2.0	1.4	22.0
20.....	35.0	12.6	10.5	28.6	3.0	4.1	7.3	16.0	9.5	2.3	1.6	21.5
21.....	32.4	12.0	11.0	35.0	3.5	3.4	6.0	17.6	11.4	2.5	1.8	18.7
22.....	29.0	11.8	11.9	38.0	4.7	3.0	5.5	18.8	11.5	2.5	1.8	15.0
23.....	24.0	11.7	12.2	39.0	9.4	3.0	5.4	20.0	11.2	2.2	1.8	14.2
24.....	22.0	11.6	13.0	38.0	17.0	2.6	5.4	20.9	10.0	2.0	1.8	12.0
25.....	14.0	11.2	14.7	35.8	19.0	2.2	4.4	22.8	7.5	2.0	1.9	11.0
26.....	12.8	11.5	17.0	31.9	20.0	2.0	4.0	24.6	6.0	2.0	1.9	7.1
27.....	12.8	11.4	22.5	28.0	20.9	1.5	4.0	24.8	4.4	1.8	2.0	6.2
28.....	12.7	11.3	27.6	24.2	22.0	1.3	3.6	22.9	4.0	1.6	2.0	6.0
29.....	12.7	.....	31.0	19.5	21.8	1.2	2.9	21.0	4.0	1.5	2.0	11.0
30.....	13.0	.....	33.0	15.0	20.7	1.2	2.9	20.6	4.2	1.3	1.8	23.0
31.....	13.0	.....	34.5	.....	19.5	.....	2.8	19.5	.....	1.3	.....	35.0
<b>Means.</b>	<b>22.7</b>	<b>20.4</b>	<b>14.3</b>	<b>27.1</b>	<b>9.7</b>	<b>9.1</b>	<b>4.6</b>	<b>11.1</b>	<b>6.9</b>	<b>3.2</b>	<b>1.6</b>	<b>9.3</b>
<b>1902</b>												
1.....	41.0	16.8	34.3	50.1	8.4	3.6	1.5	0.4	3.5	3.7	1.4	6.0
2.....	45.0	23.0	41.5	50.7	8.7	3.5	1.2	0.4	3.7	5.2	0.8	6.3
3.....	46.6	29.8	45.2	50.0	8.4	3.5	1.0	0.7	3.0	5.0	0.2	8.8
4.....	46.3	35.0	47.1	48.6	7.8	4.0	1.0	0.8	3.8	4.0	0.5	10.5
5.....	41.4	37.5	47.1	46.0	7.4	4.0	0.9	0.9	3.0	3.6	0.2	13.6
6.....	37.0	37.9	46.2	42.4	7.0	3.8	0.8	1.1	3.0	3.0	0.4	14.0
7.....	.....	37.9	44.4	39.0	7.0	3.5	0.7	1.4	2.5	2.8	0.8	14.2
8.....	33.0	37.0	43.0	35.6	7.0	3.2	0.6	1.3	2.2	2.5	3.9	13.7
9.....	30.0	34.0	41.8	32.0	6.9	2.9	0.6	1.1	2.0	2.5	4.8	12.0
10.....	25.4	30.0	39.0	28.9	6.8	2.9	0.6	1.1	1.2	1.0	4.0	9.8
11.....	17.0	24.0	35.1	25.6	6.7	2.9	1.0	1.5	0.9	2.0	2.8	7.8
12.....	14.9	17.6	30.0	22.0	6.5	2.8	1.1	1.5	0.8	2.0	1.9	7.2
13.....	10.1	14.0	25.5	19.0	6.3	2.6	1.1	1.1	0.7	4.0	1.5	5.3
14.....	9.0	11.7	21.0	16.2	6.0	2.5	1.8	0.9	0.6	6.0	1.4	4.2
15.....	8.1	11.6	19.2	14.6	5.8	2.5	1.9	0.8	0.2	5.8	0.9	3.8
16.....	7.5	12.0	19.8	14.2	6.0	2.8	1.9	0.8	0.0	5.0	0.7	7.6
17.....	7.0	12.3	23.0	13.0	7.4	2.6	1.9	0.7	-0.1	4.6	0.5	13.8
18.....	6.5	13.0	28.0	12.2	8.7	2.4	1.9	0.6	-0.2	4.5	0.5	21.5
19.....	6.5	12.0	32.0	12.8	9.5	2.3	1.9	0.1	-0.3	4.0	0.7	25.5
20.....	6.5	11.8	33.6	13.2	9.0	2.2	2.0	0.0	-0.3	2.0	0.9	25.6
21.....	8.0	11.8	33.8	13.0	8.6	2.1	2.1	-0.1	0.0	1.8	1.4	22.0
22.....	8.1	11.9	29.8	13.0	7.8	2.0	2.5	-0.2	0.0	1.4	1.5	17.0
23.....	9.0	12.0	26.0	11.4	6.6	2.0	2.4	-0.3	-0.1	1.0	1.5	15.0
24.....	12.0	12.2	23.0	10.6	5.9	2.0	1.8	-0.2	-0.2	1.0	1.3	.....
25.....	13.8	12.0	22.8	10.0	5.4	1.9	1.0	-0.4	-0.2	0.9	1.7	15.0
26.....	13.0	12.0	24.0	9.8	5.4	1.9	0.8	-0.3	-0.2	0.6	2.6	14.0
27.....	11.5	14.0	24.9	9.4	5.0	1.8	0.6	-0.4	0.2	0.2	4.8	12.8
28.....	11.4	23.6	30.0	9.0	4.8	1.8	0.5	-0.2	0.2	0.0	7.6	10.9
29.....	12.0	.....	38.0	8.6	4.4	1.8	0.4	0.1	0.5	-0.1	6.9	9.0
30.....	14.6	.....	45.1	8.5	4.0	1.7	0.5	0.2	0.9	1.2	5.8	7.0
31.....	16.0	.....	48.9	.....	3.8	.....	0.5	0.4	.....	1.8	.....	6.4
<b>Means.</b>	<b>18.9</b>	<b>20.3</b>	<b>33.6</b>	<b>22.6</b>	<b>6.7</b>	<b>2.6</b>	<b>1.2</b>	<b>0.5</b>	<b>1.0</b>	<b>2.7</b>	<b>2.1</b>	<b>12.0</b>

## MOBILE RIVER SYSTEM—ALABAMA RIVER, SELMA, ALA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	6.8	7.0	33.5	28.0	9.6	7.0	10.0	3.5	1.5	0.1	-0.2	0.4
2.....	8.0	6.9	38.0	30.2	9.4	8.0	9.8	4.8	1.6	0.0	-0.2	0.5
3.....	8.9	6.8	41.0	31.4	8.8	9.6	9.0	6.8	1.6	0.0	-0.1	0.5
4.....	11.0	7.0	42.6	31.4	8.7	12.7	8.0	6.8	1.4	-0.2	0.0	0.4
5.....	11.9	7.0	42.8	30.2	8.7	13.5	7.0	6.1	1.4	-0.2	0.1	0.5
6.....	13.0	9.6	42.0	29.0	8.4	13.2	6.8	5.0	1.2	-0.2	0.1	0.3
7.....	11.0	14.0	40.2	27.8	7.8	14.5	6.4	5.5	1.0	-0.3	0.3	0.4
8.....	10.0	23.5	38.5	26.3	7.8	16.0	6.4	5.0	0.7	-0.3	0.2	0.4
9.....	9.5	33.0	36.7	24.5	8.0	17.0	7.6	5.0	0.5	-0.3	0.5	0.5
10.....	8.2	39.0	35.0	22.4	10.0	17.0	8.8	5.4	0.4	0.0	0.9	0.5
11.....	7.0	44.3	34.0	22.2	9.8	17.0	9.0	6.6	0.4	0.4	1.0	0.5
12.....	7.9	48.0	31.3	20.7	9.0	16.0	8.0	6.1	0.3	0.5	1.1	0.6
13.....	10.6	49.5	29.8	21.5	11.2	14.0	6.8	5.0	0.2	0.6	1.0	0.8
14.....	12.8	50.2	27.5	20.8	16.0	11.0	6.6	4.6	0.1	0.4	1.0	0.9
15.....	13.0	50.6	27.0	20.0	21.0	9.5	6.4	3.3	0.1	0.2	1.0	0.9
16.....	12.0	49.9	27.0	20.3	25.0	8.6	5.8	3.0	0.0	0.4	0.9	0.9
17.....	11.8	49.0	27.0	20.8	30.0	8.0	6.5	2.8	0.6	0.4	0.9	0.9
18.....	10.0	47.7	26.3	20.9	31.2	7.4	8.8	4.0	1.3	0.6	0.8	0.8
19.....	9.0	47.3	24.0	19.0	29.7	6.8	8.6	5.0	2.2	0.6	0.7	0.6
20.....	7.9	47.8	21.3	17.6	24.0	6.5	7.0	6.7	2.5	0.5	0.7	0.6
21.....	7.0	47.9	18.0	15.4	16.5	5.9	6.0	7.7	1.7	0.5	0.8	0.5
22.....	6.4	47.0	16.0	17.2	11.8	5.9	5.0	7.4	1.5	0.4	0.8	0.6
23.....	6.0	45.0	16.0	17.5	9.8	6.4	4.5	5.0	1.5	0.4	0.8	1.0
24.....	5.8	42.0	19.0	14.8	8.7	7.4	3.8	4.0	1.3	0.4	0.7	1.0
25.....	5.4	38.0	23.0	12.8	7.9	7.5	3.6	3.1	0.8	0.5	0.8	1.0
26.....	5.2	33.8	25.1	11.7	7.6	7.5	3.5	3.0	0.6	0.6	0.9	1.1
27.....	5.2	28.0	26.3	11.0	7.0	7.0	3.7	2.6	0.6	0.5	1.0	2.0
28.....	5.8	28.9	26.7	10.8	6.8	6.8	4.0	2.0	0.6	0.2	0.8	3.0
29.....	6.0	.....	25.4	10.0	6.4	9.5	4.0	1.7	0.6	0.0	0.5	3.1
30.....	7.0	.....	25.2	9.8	6.7	11.4	3.5	1.6	0.5	0.0	0.5	2.6
31.....	7.2	.....	26.2	.....	6.5	.....	3.5	1.5	.....	0.0	.....	1.8
<b>Means.</b>	<b>8.6</b>	<b>33.9</b>	<b>29.4</b>	<b>20.5</b>	<b>12.6</b>	<b>10.3</b>	<b>6.4</b>	<b>4.5</b>	<b>1.0</b>	<b>0.2</b>	<b>0.6</b>	<b>1.0</b>
<b>1904</b>												
1.....	1.6	4.7	8.3	7.4	2.0	0.0	0.5	1.5	2.9	-1.3	-1.8	-0.9
2.....	1.1	4.0	7.0	6.5	2.1	1.3	3.9	2.0	2.0	-1.4	-1.8	-0.9
3.....	1.0	3.8	6.1	5.7	2.1	2.8	2.8	3.6	1.6	-1.4	-1.8	-0.9
4.....	1.0	3.8	5.7	5.1	2.0	3.0	2.6	4.5	1.2	-1.4	-1.6	-0.8
5.....	1.0	3.6	5.5	4.6	1.9	2.8	2.6	4.8	1.2	-1.5	-1.6	-0.6
6.....	0.9	3.5	5.4	4.2	1.6	2.6	1.9	3.5	0.9	-1.6	-1.6	-0.1
7.....	0.9	4.0	5.4	4.0	1.4	2.7	2.0	4.8	0.6	-1.6	-1.6	0.4
8.....	1.0	6.8	6.1	4.2	1.2	2.3	1.7	8.7	0.3	-1.7	-1.6	0.7
9.....	1.0	11.0	9.7	5.1	1.2	2.0	1.5	16.4	0.3	-1.8	-1.8	2.0
10.....	1.9	15.6	11.0	6.5	1.2	2.2	0.8	22.5	0.4	-1.8	-1.8	3.4
11.....	2.6	19.6	10.8	7.4	1.1	2.2	1.3	22.9	0.3	-1.8	-1.6	4.0
12.....	3.9	21.0	10.0	7.0	1.1	1.4	1.3	20.3	0.2	-1.8	-1.6	4.5
13.....	5.2	21.5	9.0	7.2	1.1	0.8	1.3	17.5	-0.2	-1.8	-1.4	4.5
14.....	4.0	19.9	7.9	7.2	0.8	0.7	0.9	15.6	-0.4	-1.8	-1.4	4.0
15.....	3.6	17.0	7.0	6.4	1.4	0.5	1.7	11.0	-0.8	-1.8	-1.4	3.0
16.....	2.7	13.0	7.3	5.2	1.6	0.2	2.0	9.1	-0.9	-1.8	-1.4	2.5
17.....	2.8	9.9	9.4	4.1	1.6	0.0	0.8	7.5	-0.9	-1.8	-1.4	2.0
18.....	3.7	7.6	11.0	3.8	1.4	-0.3	0.5	6.6	-1.0	-1.8	-1.4	1.5
19.....	4.1	6.1	11.3	3.1	1.0	-0.3	-0.1	5.8	-1.0	-1.8	-1.4	1.0
20.....	5.1	5.7	10.1	2.9	1.0	-0.4	-0.3	5.2	-1.2	-1.8	-1.4	1.0
21.....	4.5	6.0	8.9	2.8	0.8	-0.5	-0.1	4.0	-1.2	-1.8	-1.4	0.5
22.....	4.7	7.0	7.5	2.5	0.5	-0.6	0.0	3.5	-1.3	-1.8	-1.4	0.5
23.....	5.6	8.3	6.5	2.3	0.5	-1.1	0.1	2.7	-1.3	-1.8	-1.2	-0.5
24.....	10.9	10.0	5.7	2.1	0.2	-1.1	0.6	2.0	-1.3	-1.8	-1.0	-1.4
25.....	12.9	11.8	5.1	2.1	0.0	-1.1	0.8	1.8	-1.4	-1.8	-0.6	-1.6
26.....	12.0	12.0	5.8	2.0	0.0	-1.1	0.8	2.5	-1.4	-1.8	-0.6	-1.6
27.....	10.9	12.6	8.0	1.9	-0.2	-1.0	0.7	3.0	-0.9	-1.8	-0.6	-1.6
28.....	9.7	10.8	9.4	1.9	-0.4	-0.6	0.5	4.0	-0.4	-1.8	-0.6	0.0
29.....	8.1	9.7	9.7	1.9	-0.5	-0.3	0.4	3.7	-0.7	-1.8	-0.8	1.0
30.....	6.6	.....	9.2	1.9	-0.5	-0.3	0.8	4.0	-1.2	-1.8	-0.9	6.4
31.....	5.4	.....	8.3	.....	-0.2	.....	0.9	3.8	.....	-1.8	.....	6.7
<b>Means.</b>	<b>4.5</b>	<b>10.0</b>	<b>8.0</b>	<b>4.3</b>	<b>0.9</b>	<b>0.6</b>	<b>1.1</b>	<b>7.4</b>	<b>-0.2</b>	<b>-1.7</b>	<b>-1.4</b>	<b>1.2</b>

## MOBILE RIVER SYSTEM—BLACK WARRIOR RIVER, TUSCALOOSA, ALA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	10.9	6.9	18.1	25.1	21.2	4.2	41.0	9.8	5.5	0.7	4.2	12.5
2.....	9.5	6.4	25.4	18.6	18.9	5.3	35.8	8.0	5.0	0.8	5.1	9.6
3.....	8.3	5.0	26.0	15.8	16.3	13.9	32.2	6.5	4.0	0.6	5.4	8.5
4.....	7.1	5.2	23.0	13.6	13.8	15.1	32.1	5.1	4.3	0.2	5.5	7.9
5.....	6.2	6.4	20.3	12.3	11.6	20.9	30.9	4.4	3.5	0.4	5.0	8.2
6.....	5.5	9.6	17.4	12.2	9.6	21.5	27.3	3.8	2.8	0.4	4.4	10.2
7.....	5.1	11.5	15.3	11.4	8.2	20.9	23.7	3.3	2.3	0.8	3.9	10.6
8.....	4.8	10.5	27.6	10.3	7.3	21.7	20.8	3.0	1.9	1.8	3.5	9.6
9.....	4.6	12.2	39.0	10.0	6.8	38.2	18.4	2.5	1.5	3.9	3.1	8.7
10.....	4.5	20.6	36.0	10.6	6.5	31.7	15.9	2.3	1.4	6.0	2.9	8.1
11.....	7.1	23.0	31.6	26.3	6.1	24.7	13.0	2.1	1.1	6.1	2.7	7.5
12.....	31.6	20.6	27.3	52.8	5.9	19.6	11.0	2.0	0.9	14.3	2.5	6.9
13.....	31.8	41.4	23.8	53.4	5.5	15.9	10.6	1.7	0.8	22.5	2.4	6.4
14.....	28.2	48.0	20.4	48.7	5.0	15.6	12.9	1.5	1.4	21.8	2.2	6.4
15.....	24.1	45.7	17.4	42.3	4.5	19.2	10.3	1.4	5.4	16.4	2.2	6.6
16.....	20.1	40.2	16.6	37.1	3.8	29.1	8.5	1.5	10.6	11.6	2.1	6.4
17.....	16.5	34.7	21.2	63.0	3.6	28.8	7.0	1.5	8.9	8.2	2.0	6.1
18.....	14.3	29.7	20.3	65.0	3.5	25.3	6.0	1.4	6.3	6.1	2.0	5.7
19.....	15.8	25.9	18.8	62.2	3.5	24.5	5.6	3.0	4.4	5.1	1.9	5.3
20.....	25.0	22.4	45.1	59.3	3.3	30.1	6.3	4.4	3.3	4.3	3.9	5.4
21.....	32.6	19.9	51.0	56.1	3.6	27.8	8.5	3.7	2.6	3.6	8.4	6.3
22.....	29.4	23.6	48.0	51.7	3.5	25.3	8.0	3.0	2.2	3.1	10.2	8.3
23.....	24.5	26.5	42.4	46.2	3.3	24.5	8.1	2.5	1.8	4.6	12.5	11.9
24.....	20.4	24.2	38.2	41.9	4.4	50.0	8.7	2.5	1.6	7.3	11.0	17.0
25.....	17.1	22.4	35.4	37.9	7.5	58.3	7.4	2.1	1.6	10.4	9.4	18.7
26.....	14.1	21.0	36.8	33.9	7.6	56.3	6.8	4.5	1.4	8.5	15.9	17.0
27.....	12.1	18.6	35.3	30.9	6.7	52.9	9.2	4.3	1.3	6.7	22.2	14.6
28.....	10.5	16.5	31.8	28.1	5.3	49.0	16.2	3.2	1.0	5.4	21.0	12.5
29.....	9.1	.....	28.8	25.7	4.2	48.0	13.5	3.4	0.9	4.7	17.3	10.9
30.....	8.3	.....	26.2	23.5	3.6	46.3	11.8	2.1	0.7	4.1	14.0	10.1
31.....	7.6	.....	24.2	.....	3.6	.....	11.0	2.5	.....	3.7	.....	14.2
<b>Means.</b>	<b>15.1</b>	<b>21.4</b>	<b>28.7</b>	<b>34.1</b>	<b>7.0</b>	<b>28.8</b>	<b>15.4</b>	<b>3.3</b>	<b>3.0</b>	<b>6.3</b>	<b>7.0</b>	<b>9.6</b>
<b>1901</b>												
1.....	19.5	15.1	7.5	28.0	9.4	6.5	1.7	0.7	6.1	5.4	0.8	1.6
2.....	19.0	14.8	7.3	26.5	8.5	12.2	1.7	0.6	5.1	6.9	0.8	1.5
3.....	17.9	15.0	8.4	32.6	7.9	16.6	2.0	0.8	4.0	9.0	0.7	1.4
4.....	14.7	35.2	9.6	35.1	7.3	14.8	2.3	1.0	3.6	6.7	1.0	1.4
5.....	13.0	42.0	9.7	31.5	7.0	12.0	2.5	0.8	3.0	5.3	1.1	1.3
6.....	11.5	38.3	9.5	27.5	6.3	11.2	2.3	0.7	2.8	4.5	1.1	1.9
7.....	10.2	32.1	9.0	24.3	6.1	11.1	2.5	0.6	2.3	3.4	1.0	1.9
8.....	9.5	29.1	8.5	20.9	6.0	11.5	2.4	0.5	2.0	3.0	1.0	2.6
9.....	8.7	28.0	8.0	17.9	5.7	9.4	2.2	0.3	1.9	2.5	0.9	2.6
10.....	8.3	30.9	8.7	14.5	5.6	7.6	2.1	0.2	1.7	2.3	0.9	3.8
11.....	17.4	29.7	29.5	12.5	5.0	6.5	2.0	0.2	1.5	2.1	0.9	5.0
12.....	52.7	27.4	34.0	11.0	4.6	6.2	1.7	0.6	1.4	1.9	0.8	5.8
13.....	56.5	25.1	28.5	10.0	5.0	6.4	1.3	0.6	1.3	3.4	1.0	5.7
14.....	53.2	22.5	23.5	11.3	6.6	5.5	0.9	0.8	2.5	3.3	1.0	7.4
15.....	47.2	19.6	19.7	12.8	8.7	5.0	0.7	1.2	6.7	3.9	1.0	31.0
16.....	41.4	17.4	16.0	13.0	8.3	4.8	0.6	5.7	8.0	3.8	1.0	40.7
17.....	36.3	15.7	13.0	11.7	6.8	4.5	0.4	17.0	6.1	3.5	0.9	35.0
18.....	31.8	13.7	11.0	12.8	5.5	4.1	2.6	26.3	12.2	3.0	0.9	27.0
19.....	28.1	12.5	10.0	25.7	4.7	3.8	4.0	22.7	16.0	2.7	1.1	21.5
20.....	25.1	11.9	9.6	39.8	4.9	3.3	5.7	25.7	14.5	2.3	1.3	16.4
21.....	22.5	10.9	13.0	42.6	8.3	3.0	7.3	32.1	10.6	2.0	1.4	12.1
22.....	19.8	9.9	16.5	38.0	17.3	2.7	6.0	32.5	7.5	1.8	1.7	9.9
23.....	17.5	9.2	15.7	32.8	19.8	2.3	4.5	31.9	5.7	1.6	2.0	7.0
24.....	15.3	8.7	14.0	28.4	17.5	2.2	3.2	26.8	4.5	1.4	2.0	6.8
25.....	14.6	8.6	13.8	24.4	14.1	2.0	2.5	22.4	3.9	1.3	2.0	7.3
26.....	18.0	8.5	28.5	21.0	11.3	1.9	2.0	18.3	3.4	1.2	1.9	8.3
27.....	17.2	8.2	37.2	17.9	9.3	1.8	1.5	14.1	2.9	1.0	1.9	9.0
28.....	15.5	7.9	34.5	14.9	8.1	1.7	1.0	9.8	2.6	0.8	2.0	11.0
29.....	14.8	.....	29.0	12.5	7.0	1.6	0.9	7.9	2.9	0.5	1.9	36.3
30.....	15.1	.....	24.3	10.9	6.9	1.6	0.8	7.4	4.8	0.9	1.9	49.0
31.....	14.6	.....	24.8	.....	6.3	.....	0.6	7.1	.....	0.9	.....	49.0
<b>Means.</b>	<b>22.8</b>	<b>19.6</b>	<b>17.2</b>	<b>22.1</b>	<b>8.3</b>	<b>6.1</b>	<b>2.3</b>	<b>10.2</b>	<b>5.0</b>	<b>3.0</b>	<b>1.3</b>	<b>18.8</b>

## MOBILE RIVER SYSTEM—BLACK WARRIOR RIVER, TUSCALOOSA, ALA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	44.0	37.8	49.8	52.8	10.8	1.5	0.3	0.0	2.5	5.6	4.9	8.5
2.....	38.8	47.5	48.1	45.5	9.9	1.4	0.3	0.0	2.2	5.5	4.8	9.5
3.....	34.1	48.4	44.0	39.7	8.3	1.4	0.1	0.0	2.8	5.0	4.8	13.5
4.....	28.5	45.0	37.5	35.0	6.5	1.5	0.0	0.1	4.8	5.5	4.9	17.1
5.....	24.8	40.0	33.5	32.0	5.5	1.4	0.0	1.8	4.6	5.5	4.9	17.5
6.....	21.1	36.0	35.7	29.0	5.0	1.3	0.0	2.3	3.5	5.3	4.9	15.6
7.....	15.5	31.0	35.0	26.9	4.7	1.2	0.0	1.9	2.5	5.1	5.0	14.9
8.....	14.0	27.1	31.6	32.7	5.1	1.1	0.0	1.3	2.0	5.0	4.9	13.4
9.....	12.5	24.3	28.5	35.7	5.1	1.1	0.1	0.8	1.6	4.9	4.9	11.7
10.....	11.0	21.5	25.5	32.8	4.7	1.0	0.2	0.7	1.3	4.9	4.8	9.2
11.....	9.3	18.0	23.1	29.0	4.3	1.0	0.2	0.5	1.1	9.6	4.8	9.1
12.....	8.5	15.4	20.4	26.0	4.0	0.9	0.2	0.4	0.8	15.4	4.9	8.5
13.....	8.0	13.0	17.7	23.3	3.7	0.8	0.1	0.3	0.7	14.9	4.9	8.0
14.....	7.3	11.0	15.5	20.6	3.5	0.7	0.1	0.2	0.5	11.7	4.9	7.8
15.....	6.7	11.5	15.0	18.0	3.1	0.7	0.1	0.1	0.4	8.9	4.9	7.4
16.....	6.1	19.8	17.5	15.8	3.5	0.6	0.1	0.1	0.2	7.4	4.9	15.0
17.....	5.6	21.8	31.8	14.4	6.0	0.5	0.0	0.1	0.1	6.4	4.9	29.6
18.....	5.0	19.7	29.6	12.9	6.5	0.5	0.0	0.1	0.1	6.0	5.2	28.8
19.....	6.0	17.5	25.0	11.8	6.1	0.8	0.0	0.0	0.7	5.8	5.5	23.9
20.....	7.8	16.0	21.3	10.5	5.3	1.0	0.0	0.0	2.2	5.7	5.5	19.1
21.....	11.0	14.5	18.5	9.6	4.5	1.6	0.0	0.0	3.5	5.6	5.5	16.3
22.....	16.1	14.0	17.6	8.8	3.9	1.7	0.0	0.1	3.9	5.6	5.5	18.0
23.....	20.8	13.6	15.2	8.0	3.5	1.7	0.0	0.1	4.3	5.5	5.4	20.1
24.....	20.8	13.0	13.8	7.7	3.0	1.8	0.1	0.1	4.5	5.4	5.4	18.1
25.....	18.5	12.5	18.3	7.3	2.8	1.8	0.1	0.1	4.7	5.3	5.6	15.4
26.....	16.8	13.0	19.0	7.0	2.7	1.5	0.1	0.0	4.8	5.2	6.7	13.5
27.....	15.5	14.0	35.5	6.7	2.3	1.1	0.1	0.1	4.9	5.0	13.9	12.0
28.....	20.0	41.6	60.3	6.4	2.0	0.6	0.0	0.6	5.2	4.9	13.4	10.9
29.....	28.0	.....	60.6	5.9	1.9	0.4	0.0	1.4	5.0	4.9	10.4	10.0
30.....	27.8	.....	58.3	5.7	1.8	0.4	0.0	1.6	5.6	4.9	9.6	11.1
31.....	28.5	.....	57.4	.....	1.6	.....	0.0	1.9	.....	4.9	.....	12.5
<b>Means.</b>	<b>17.4</b>	<b>23.5</b>	<b>31.0</b>	<b>20.6</b>	<b>4.6</b>	<b>1.1</b>	<b>0.1</b>	<b>0.5</b>	<b>2.7</b>	<b>6.5</b>	<b>6.0</b>	<b>14.4</b>
<b>1903</b>												
1.....	13.2	13.3	54.3	16.7	8.5	9.6	6.4	6.9	5.1	3.9	5.0	4.7
2.....	13.7	12.5	52.4	16.6	8.1	12.5	5.9	7.4	5.0	3.9	5.1	4.7
3.....	16.5	13.7	47.2	15.3	7.9	14.2	5.6	8.5	5.0	3.8	5.6	4.7
4.....	23.1	18.5	41.4	14.1	7.7	12.3	5.4	7.6	4.9	3.7	5.5	4.8
5.....	22.5	35.0	36.9	13.1	7.4	12.4	5.8	6.9	4.8	3.6	5.2	4.8
6.....	19.8	37.8	33.1	12.3	7.1	13.3	6.3	6.5	4.7	3.9	5.0	4.8
7.....	17.1	36.0	37.8	11.5	6.9	16.8	6.1	6.8	4.5	4.2	4.9	4.8
8.....	15.1	56.3	36.5	11.1	6.8	16.5	5.9	6.7	4.4	4.7	4.9	4.8
9.....	13.3	55.8	39.1	12.3	7.0	12.2	5.7	6.5	4.4	4.7	4.8	4.8
10.....	12.1	51.5	39.2	22.3	6.9	10.5	6.5	6.1	4.4	4.9	4.8	4.8
11.....	12.5	52.0	37.7	20.1	6.7	10.8	6.2	6.3	4.3	4.9	4.8	4.9
12.....	23.9	53.7	35.1	16.5	7.0	11.0	6.3	6.1	4.2	5.1	4.8	4.9
13.....	28.4	51.1	33.8	14.3	8.6	10.3	6.6	6.1	4.2	5.1	4.9	4.8
14.....	25.7	46.1	36.1	21.2	14.3	9.4	6.7	6.0	4.2	4.9	4.8	4.8
15.....	21.9	41.1	36.0	32.1	36.8	8.3	6.5	5.9	4.1	4.9	4.9	4.8
16.....	19.0	40.5	33.8	28.2	43.4	7.6	6.2	6.2	4.1	4.9	4.9	4.8
17.....	16.1	56.6	31.1	23.4	43.1	7.0	5.9	6.6	4.0	4.9	4.9	4.8
18.....	14.5	56.4	28.6	18.3	37.1	6.7	5.8	6.8	4.0	5.0	4.9	4.8
19.....	12.5	52.9	26.1	16.0	30.6	6.4	5.7	7.8	4.0	4.9	4.9	4.8
20.....	11.8	46.7	23.5	14.5	25.8	6.2	5.4	7.6	4.0	4.9	4.8	4.9
21.....	11.0	41.3	20.8	14.9	21.5	6.2	5.1	6.9	4.0	4.9	4.8	5.1
22.....	10.8	36.5	18.8	17.9	17.6	7.2	5.0	6.5	3.9	4.8	4.8	5.2
23.....	10.0	32.3	17.5	15.9	13.8	6.9	4.7	6.1	3.9	4.7	4.7	5.1
24.....	9.5	28.8	16.1	13.8	11.1	6.7	4.7	5.6	3.9	4.6	4.7	5.4
25.....	8.6	26.1	14.8	12.3	9.8	6.8	4.8	5.4	3.8	4.6	4.7	5.6
26.....	8.2	23.9	13.4	11.3	9.0	7.8	4.9	5.2	3.8	4.5	4.7	5.5
27.....	8.0	22.0	12.4	10.5	8.3	7.5	4.8	5.1	3.7	4.5	4.7	5.3
28.....	9.8	45.4	11.8	10.0	7.8	7.1	4.6	5.0	3.7	4.6	4.7	5.1
29.....	12.3	.....	11.6	9.4	7.4	6.9	4.8	4.9	3.8	4.6	4.7	5.1
30.....	14.7	.....	11.7	8.9	7.1	6.5	4.7	5.3	3.9	4.7	4.7	5.0
31.....	14.5	.....	13.5	.....	7.3	.....	6.5	5.1	.....	4.8	.....	5.0
<b>Means.</b>	<b>15.2</b>	<b>38.7</b>	<b>29.1</b>	<b>15.8</b>	<b>14.5</b>	<b>9.5</b>	<b>5.7</b>	<b>6.3</b>	<b>4.2</b>	<b>4.6</b>	<b>4.9</b>	<b>4.9</b>

## MOBILE RIVER SYSTEM—BLACK WARRIOR RIVER, TUSCALOOSA, ALA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	5.0	6.4	6.5	13.0	6.8	5.1	8.1	5.2	4.9	4.4	4.1	4.1
2.....	5.0	6.3	6.4	12.2	6.7	6.4	9.8	5.2	4.9	4.3	4.1	4.2
3.....	5.0	6.4	6.4	12.2	6.4	6.9	8.1	5.5	4.8	4.3	4.2	5.2
4.....	5.0	6.3	6.3	12.1	6.2	6.5	6.9	6.5	4.7	4.3	4.7	5.8
5.....	4.9	6.3	6.2	11.0	6.0	6.0	6.6	6.8	4.6	4.4	4.7	7.2
6.....	4.9	6.2	6.0	10.1	5.8	5.5	5.9	6.7	4.8	4.4	4.6	9.2
7.....	5.0	6.3	9.3	9.9	5.6	5.5	5.4	7.3	4.8	4.2	4.7	15.2
8.....	5.1	6.7	15.7	12.3	5.5	5.4	5.4	9.5	4.7	4.3	4.8	13.1
9.....	5.1	7.7	17.5	18.4	5.4	5.3	6.0	9.9	4.9	4.3	4.7	10.2
10.....	5.4	8.7	15.2	20.5	5.9	5.3	7.9	9.7	4.9	4.2	4.7	8.3
11.....	5.3	11.0	12.9	18.1	6.1	5.3	7.7	8.1	4.8	4.3	4.6	7.2
12.....	5.5	12.1	11.0	15.0	6.0	5.3	7.0	8.3	4.7	4.3	4.5	6.7
13.....	5.4	10.7	10.2	13.1	5.9	5.2	7.2	10.3	4.7	4.3	4.5	6.4
14.....	5.2	9.5	10.8	11.4	5.8	5.2	9.0	10.5	4.7	4.3	4.4	6.0
15.....	5.1	8.7	17.6	10.2	5.6	5.1	8.8	9.2	4.6	4.3	4.4	5.8
16.....	5.0	8.0	22.2	8.5	5.4	5.1	7.4	8.4	4.6	4.3	4.3	5.5
17.....	5.3	7.5	19.0	8.4	5.2	5.0	7.0	7.5	4.5	4.1	4.3	5.4
18.....	5.6	7.1	15.3	8.3	5.1	4.8	6.9	6.9	4.5	4.1	4.2	5.3
19.....	5.5	6.8	13.1	8.1	5.1	4.7	5.5	6.8	4.5	4.1	4.2	5.1
20.....	5.5	6.8	11.7	7.8	5.1	4.6	5.3	6.4	4.5	4.2	4.2	5.1
21.....	5.5	7.0	10.7	7.4	5.0	4.6	5.2	6.1	4.5	4.2	4.3	5.1
22.....	6.7	7.3	9.8	7.1	5.0	4.4	4.7	5.5	4.4	4.2	4.7	5.1
23.....	11.7	7.4	9.2	7.0	5.0	4.3	5.1	5.3	4.4	4.2	4.7	5.0
24.....	12.7	7.3	9.4	7.0	5.0	4.2	5.3	5.1	4.4	4.1	4.7	5.0
25.....	11.1	7.3	14.0	7.4	4.9	4.0	5.6	5.0	4.4	4.1	4.6	5.9
26.....	9.5	7.2	15.4	7.4	4.9	3.8	5.7	4.8	4.4	4.1	4.5	6.6
27.....	8.2	7.1	14.7	7.2	4.9	4.5	5.4	4.8	4.3	4.1	4.5	7.8
28.....	7.4	6.8	18.5	7.1	4.9	4.8	5.3	4.9	4.3	4.1	4.5	18.8
29.....	6.9	6.7	20.6	7.1	4.8	4.8	5.4	4.9	4.4	4.1	4.4	26.5
30.....	6.6	.....	17.8	7.1	4.8	4.7	5.1	5.1	4.4	4.0	4.2	21.5
31.....	6.4	.....	15.0	.....	4.9	.....	5.2	4.7	.....	4.0	.....	15.8
Means.	6.3	7.6	12.7	10.4	5.5	5.1	6.4	6.8	4.6	4.2	4.5	8.5

## MOBILE RIVER SYSTEM—TOMBIGBEE RIVER, COLUMBUS, MISS.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	3.5	0.4	7.1	4.5	8.0	1.0	19.7	5.8	-1.2	-2.7	2.6	3.4
2.....	2.2	0.3	6.8	3.8	6.5	8.0	18.3	4.0	-1.0	-2.8	4.9	2.5
3.....	1.8	0.2	5.6	2.7	5.9	10.0	17.6	2.8	-1.0	-3.0	5.5	1.9
4.....	1.6	0.4	4.4	1.9	4.5	13.4	16.2	1.9	-0.7	-3.1	5.1	1.0
5.....	1.4	1.8	3.8	1.5	2.8	15.3	15.9	1.0	-0.6	-3.3	4.4	0.1
6.....	1.2	3.5	3.4	1.3	1.5	17.0	15.4	0.0	-0.3	-3.5	3.1	0.2
7.....	1.1	3.5	7.6	1.3	0.8	20.7	14.5	-0.5	-1.3	-3.5	1.9	0.3
8.....	1.0	3.3	14.4	1.1	0.5	23.6	13.5	-0.9	-1.9	-2.2	0.9	0.3
9.....	0.9	4.2	15.1	0.7	1.4	25.5	10.0	-1.4	-2.1	-1.0	-0.1	0.0
10.....	0.9	8.4	13.8	0.5	2.3	25.0	6.8	-1.8	-2.3	-0.6	-0.5	-0.3
11.....	2.0	7.8	11.3	11.7	3.3	23.5	5.5	-2.2	-2.4	-0.4	-0.9	0.5
12.....	6.6	7.6	9.9	16.2	3.6	21.6	4.0	-2.6	-2.5	2.6	-1.1	-0.6
13.....	8.3	10.2	6.7	17.4	2.8	20.0	3.5	-2.6	-2.6	4.8	-1.3	-0.9
14.....	7.1	9.8	4.3	19.3	2.2	18.5	2.0	-2.7	-2.7	5.2	-1.3	-0.9
15.....	5.6	8.1	4.8	20.8	1.6	17.8	1.9	-2.2	-2.7	5.6	-1.4	-0.9
16.....	4.6	5.8	5.6	20.9	0.7	17.1	1.5	-2.2	-2.8	5.4	-1.5	-0.9
17.....	2.8	4.6	5.2	22.9	0.0	17.3	1.0	-2.3	-2.9	2.4	-1.5	-0.9
18.....	2.4	3.8	4.6	26.9	-0.4	17.8	0.5	-2.3	-3.0	0.4	-1.6	-1.0
19.....	2.2	3.2	9.4	27.6	-1.0	18.0	0.0	-1.8	-3.0	-0.4	-1.6	-1.0
20.....	2.1	2.8	15.6	27.5	-0.8	16.8	0.4	-1.4	-3.1	-0.9	-1.6	-1.0
21.....	1.9	3.5	18.2	27.1	-0.5	15.2	1.3	-1.1	-3.0	-1.1	-1.6	-1.0
22.....	1.8	5.6	19.0	25.5	-0.5	13.5	2.0	-1.6	-2.9	-1.3	-1.2	3.8
23.....	1.6	5.4	19.2	23.3	0.1	13.8	1.9	-1.9	-2.7	-1.0	0.0	5.0
24.....	1.4	4.5	18.1	21.3	0.2	18.5	1.4	-2.0	-1.3	-0.2	1.7	6.0
25.....	1.2	5.0	15.2	19.4	0.3	21.5	0.7	-0.1	-1.7	0.8	2.3	6.6
26.....	1.1	5.0	11.4	17.3	2.3	24.1	0.1	1.2	-2.0	1.0	2.8	6.8
27.....	0.9	3.9	7.8	14.8	2.4	25.0	1.8	0.6	-2.2	5.1	3.3	6.1
28.....	0.7	4.2	4.6	11.8	2.2	24.8	5.0	-0.3	-2.4	5.6	3.8	5.0
29.....	0.6	.....	3.9	9.5	1.6	23.5	5.9	-1.0	-2.5	4.6	3.9	4.2
30.....	0.5	.....	3.1	9.4	1.0	21.7	6.7	-1.4	-2.5	4.0	3.8	4.8
31.....	0.4	.....	3.3	.....	0.8	.....	7.2	-1.1	.....	3.0	.....	4.0
Means.	2.3	4.5	9.1	13.7	1.8	18.3	6.5	-0.6	-2.1	0.6	1.1	1.7

## MOBILE RIVER SYSTEM—TOMBIGBEE RIVER, COLUMBUS, MISS.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	4.0	6.0	0.9	2.6	0.9	1.3	-1.6	-3.2	-0.4	-2.3	-3.0	-2.2
2.....	3.7	5.9	1.8	6.4	0.5	3.1	-2.4	-3.4	-0.9	-2.0	-3.0	-2.2
3.....	3.2	6.8	2.2	8.0	0.2	3.8	-2.4	-3.5	-1.3	-2.2	-3.0	-2.3
4.....	2.6	12.3	2.4	7.1	0.0	3.9	-2.1	-3.4	-1.6	-2.2	-2.9	-2.3
5.....	1.8	13.2	2.1	6.8	-0.3	3.5	-2.4	-3.3	-1.6	-2.5	-2.9	-2.2
6.....	1.0	13.9	1.8	6.2	-0.5	3.1	-2.5	-3.2	-1.9	-2.5	-2.9	-2.2
7.....	0.7	15.1	1.4	5.3	-0.6	2.8	-2.6	-3.0	-2.0	-2.6	-3.0	-2.2
8.....	0.1	15.9	1.2	4.0	-0.9	1.9	-2.6	-2.8	-2.2	-2.7	-2.8	-2.1
9.....	0.0	15.6	1.0	2.9	-1.0	1.4	-2.7	-2.8	-2.3	-2.7	-2.8	-2.0
10.....	0.3	14.5	8.8	2.0	-1.1	1.0	-2.8	-2.9	-2.4	-2.8	-2.8	-1.8
11.....	10.9	13.0	12.1	1.4	-1.2	-0.1	-2.8	-3.0	-2.5	-2.8	-2.7	-1.1
12.....	16.9	12.5	14.0	0.9	-1.2	-0.7	-2.9	-3.1	-2.5	-2.8	-2.8	-0.5
13.....	19.4	12.4	17.8	0.7	-0.4	-1.0	-3.0	-3.0	-2.4	-2.6	-2.8	0.1
14.....	21.7	11.0	19.4	0.7	3.3	-0.9	-3.1	-3.2	-2.1	-2.5	-2.8	4.5
15.....	22.7	8.9	19.0	0.9	4.4	-0.8	-3.1	-1.5	-1.8	-2.2	-2.8	9.5
16.....	22.3	6.0	17.1	1.2	4.4	-0.8	-3.2	4.0	-1.0	-2.0	-2.7	9.8
17.....	20.9	4.4	13.8	1.5	3.6	-1.0	-3.2	11.5	-0.2	-2.0	-2.7	9.2
18.....	18.8	3.3	10.8	6.0	2.7	-1.2	-3.0	12.4	2.5	-2.2	-2.7	9.8
19.....	16.0	2.7	8.0	11.8	2.1	-1.7	-3.0	12.4	3.4	-2.3	-2.6	10.0
20.....	13.6	2.2	6.3	12.4	2.1	-2.0	-3.0	14.0	3.5	-2.4	-2.5	8.8
21.....	9.4	1.8	4.6	12.7	6.3	-2.2	-2.0	15.6	2.6	-2.5	-2.4	5.9
22.....	6.2	1.5	3.5	13.5	6.7	-2.3	-1.9	15.9	1.4	-2.6	-2.2	4.8
23.....	3.8	1.2	3.2	13.5	6.3	-2.4	-2.3	14.8	0.4	-2.7	-2.2	2.4
24.....	3.0	1.0	3.1	11.8	5.3	-2.5	-2.5	12.1	-0.6	-2.8	-2.1	1.4
25.....	5.9	1.0	2.8	8.2	4.0	-2.5	-2.6	8.9	-1.2	-2.9	-2.0	0.8
26.....	6.5	1.1	2.5	5.1	2.2	-2.6	-2.9	6.5	-1.6	-2.9	-1.9	0.7
27.....	6.3	1.2	2.2	3.4	1.5	-2.6	-3.0	4.1	-1.9	-2.9	-1.8	1.1
28.....	6.0	1.0	1.9	2.5	1.8	-2.6	-3.1	2.0	-2.1	-2.9	-1.8	1.0
29.....	5.8	.....	1.6	1.8	1.7	-2.7	-3.2	1.6	-2.2	-3.0	-2.0	9.0
30.....	5.7	.....	1.4	1.3	1.2	-2.6	-3.3	1.1	-2.3	-3.0	-2.1	11.0
31.....	5.5	.....	2.3	.....	0.9	.....	-3.4	0.3	.....	-3.0	.....	9.6
Means.	8.5	7.3	6.2	5.4	1.8	-0.3	-2.7	3.0	-0.9	-2.6	-2.6	2.8
<b>1902</b>												
1.....	9.2	14.5	9.5	30.3	0.0	-2.6	-3.2	-2.6	-2.4	-2.2	-3.3	3.8
2.....	8.9	16.8	9.3	29.4	-0.5	-2.5	-3.2	-1.3	-2.7	-1.8	-3.3	3.9
3.....	7.7	17.9	9.3	28.2	-1.5	-2.5	-3.2	-0.5	-2.4	-0.9	-3.3	4.9
4.....	5.8	18.5	9.2	26.3	-0.9	-2.6	-3.2	-0.2	-2.2	-0.6	-3.3	5.1
5.....	4.0	19.0	9.8	23.7	-0.2	-2.6	-3.2	-0.1	-2.5	-1.0	-3.3	5.7
6.....	2.2	17.6	9.2	20.5	-0.1	-2.7	-3.3	-0.4	-2.2	-1.3	-3.2	5.7
7.....	1.5	16.0	8.2	18.2	-0.4	-2.7	-3.3	-1.0	-2.2	-1.6	-3.1	4.9
8.....	0.9	13.6	7.8	18.9	-0.6	-2.8	-3.3	-1.6	-2.1	-2.0	-3.1	4.6
9.....	0.5	10.7	7.0	18.3	-0.4	-2.8	-3.4	-2.0	-2.2	-2.3	-3.0	3.9
10.....	0.1	7.6	6.0	17.8	-0.2	-2.9	-3.4	-2.3	-2.4	-2.5	-2.9	3.0
11.....	0.2	5.6	6.0	17.4	-0.5	-2.8	-3.2	-2.7	-2.7	-2.9	-3.0	2.2
12.....	0.2	3.0	4.2	16.0	-0.8	-2.9	-3.4	-2.9	-3.0	-2.6	.....	1.5
13.....	0.5	2.1	4.3	13.0	-1.0	-2.8	-3.0	-3.0	-3.2	-2.7	-3.1	0.8
14.....	0.6	1.4	4.3	9.0	-1.3	-2.9	-2.5	-3.1	-3.3	-2.5	.....	0.6
15.....	0.9	4.0	4.8	5.6	-1.5	-3.0	-2.7	-3.2	-3.4	-2.2	-3.1	0.6
16.....	1.0	5.4	6.0	4.2	-1.6	-3.1	-3.0	-3.3	-3.5	-2.2	-3.0	1.2
17.....	1.0	5.6	7.4	3.5	-1.1	-3.2	-3.1	-3.3	-3.5	-2.0	-3.0	1.9
18.....	1.0	5.9	7.6	3.0	-1.3	-3.2	-3.2	-3.3	-3.5	-2.5	-3.0	11.1
19.....	0.6	5.6	7.5	2.7	-1.1	-3.2	-3.3	-3.4	-3.5	-2.5	-3.0	11.8
20.....	0.5	4.6	6.7	2.2	-1.1	-3.2	-3.3	-3.4	-3.5	-2.6	-3.0	13.0
21.....	3.1	4.4	5.7	2.0	-1.0	-3.1	-2.7	-3.4	-3.4	-2.9	-2.9	13.2
22.....	5.2	5.3	4.7	1.8	-1.2	-3.0	-3.0	-3.5	-3.3	-3.0	-2.9	14.8
23.....	5.6	5.6	3.5	1.6	-1.5	-2.9	-3.0	-3.5	-3.3	-3.0	-2.9	13.8
24.....	5.8	5.3	4.0	1.1	-1.7	-2.8	-2.9	-3.5	-3.3	-3.0	-2.9	12.1
25.....	5.5	6.4	6.4	0.9	-1.9	-3.0	-2.9	-3.6	-3.4	-3.1	-1.4	10.0
26.....	4.6	5.8	6.1	0.7	-2.1	-3.0	-2.8	-3.6	-3.4	-3.1	0.3	.....
27.....	4.0	5.7	13.4	0.6	-2.2	-3.0	-2.9	-3.6	-3.3	-3.1	1.2	.....
28.....	6.1	8.1	21.0	0.4	-2.3	-3.0	-2.9	-3.1	-3.2	-3.2	2.5	10.8
29.....	7.4	.....	28.0	0.3	-2.4	-3.1	-2.6	-3.0	-3.1	-3.3	2.9	11.3
30.....	10.0	.....	30.5	0.3	-2.5	-3.2	-3.0	-2.5	-2.9	-3.3	3.5	10.4
31.....	12.4	.....	30.6	.....	-2.5	.....	-3.0	-2.4	.....	-3.3	.....	.....
Means.	3.4	8.6	9.6	10.6	-1.2	-2.9	-3.1	-2.6	-3.0	-2.4	-2.1	6.7



## MOBILE RIVER SYSTEM—TOMBIGBEE RIVER, COLUMBUS, MISS.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	3.8	9.0	10.4	3.5	-0.4	3.1	0.0	-2.2	-3.4	-3.7	-3.2	-3.0
2.....	8.4	8.2	10.8	3.4	-0.6	2.9	-0.8	-2.1	-3.4	-3.7	-2.8	-2.6
3.....	11.8	7.7	11.5	3.0	-0.9	3.0	-1.3	-2.3	-3.5	-3.7	-2.0	-2.6
4.....	12.2	8.5	11.7	2.5	-1.1	.....	-1.4	-2.4	-3.5	-3.7	-1.8	-2.8
5.....	11.8	8.8	11.4	2.0	-1.1	2.9	-1.6	-1.6	-3.5	-3.7	-1.7	-3.0
6.....	12.2	9.0	11.5	1.7	-1.2	2.3	-1.7	-2.8	-3.6	-3.7	-1.6	-3.0
7.....	12.0	12.0	12.4	1.3	-1.3	2.3	-2.0	-2.9	-3.6	-3.7	-1.4	-3.0
8.....	11.0	18.6	13.6	1.0	-1.4	2.3	-1.8	-3.0	-3.6	-3.6	-1.4	-3.0
9.....	8.8	19.8	15.3	0.8	-1.4	2.1	-2.0	-2.4	-3.6	-3.7	-1.5	-3.0
10.....	8.5	20.5	16.0	1.6	-1.4	1.9	-2.0	-2.3	-3.6	-3.7	-1.5	-3.0
11.....	8.9	22.3	17.0	2.6	-1.4	1.3	-2.0	-1.5	-3.6	-3.7	-1.5	-3.0
12.....	9.5	23.9	17.3	2.4	-1.1	1.2	-2.1	-1.0	-3.7	-3.6	-1.5	-2.9
13.....	9.8	23.8	17.5	2.2	1.0	0.8	-2.1	-1.0	-3.7	-3.6	-1.4	-2.8
14.....	9.9	22.7	18.5	1.9	8.0	0.1	-1.7	-0.8	-3.7	-3.6	-2.3	-2.6
15.....	10.4	21.5	19.8	.....	10.6	-0.4	-1.8	-1.2	-3.7	-3.6	-2.6	-2.6
16.....	10.4	20.9	20.0	3.6	12.0	-0.8	-1.9	-1.2	-3.7	-3.6	-3.0	-2.9
17.....	9.4	22.5	19.8	3.6	12.0	-1.0	-1.9	-1.5	-3.7	-3.5	-3.0	-3.0
18.....	7.6	23.0	19.2	3.3	12.5	-1.6	-2.1	-1.7	-3.7	-3.5	-3.2	-3.0
19.....	5.6	23.1	18.3	2.8	11.9	-1.8	-2.3	-1.9	-3.7	-3.6	-2.7	-2.8
20.....	4.6	23.6	16.7	2.2	10.1	-1.9	-2.4	-1.0	-3.7	-3.6	-2.7	-2.6
21.....	3.5	23.3	14.0	1.5	7.6	-1.9	-2.5	-1.7	-3.7	-3.5	-2.7	-2.5
22.....	3.2	21.7	12.1	1.0	5.7	-2.0	-2.6	-1.4	-3.7	-3.5	-2.7	-2.5
23.....	2.7	19.8	10.8	1.6	3.0	-2.0	-2.6	-2.0	-3.8	-3.5	-2.8	-2.6
24.....	2.3	17.0	9.8	2.0	1.2	-1.7	-3.0	-2.3	-3.8	-3.6	-2.8	-2.9
25.....	2.0	15.8	9.5	2.0	-0.4	-1.3	-3.0	-2.5	-3.7	-3.6	-2.6	-2.9
26.....	1.9	14.6	8.8	1.6	-0.2	-1.6	-3.0	-2.6	-3.7	-3.5	-2.7	-2.7
27.....	1.9	8.7	6.9	1.4	-0.6	0.8	-3.0	-2.9	-3.7	-3.5	-2.7	-2.1
28.....	5.6	9.2	5.1	0.6	-1.0	1.9	-3.0	-2.9	-3.7	-3.5	-2.8	-1.7
29.....	7.6	.....	4.0	0.1	-1.0	1.5	-3.1	-3.0	-3.7	-3.5	-2.8	-1.6
30.....	8.0	.....	3.4	-0.2	-1.1	0.8	-3.1	-3.1	-3.7	-3.6	-3.0	-1.6
31.....	8.8	.....	3.5	.....	0.1	.....	-3.1	-3.3	.....	-3.5	.....	-1.8
<b>Means.</b>	<b>7.6</b>	<b>17.1</b>	<b>12.8</b>	<b>2.0</b>	<b>2.6</b>	<b>0.5</b>	<b>-2.2</b>	<b>-2.1</b>	<b>-3.6</b>	<b>-3.6</b>	<b>-2.3</b>	<b>-2.6</b>
<b>1904</b>												
1.....	-1.8	1.6	-1.3	4.6	-1.3	-2.3	-1.6	-1.8	-3.3	-2.8	-3.1	-2.2
2.....	-1.9	1.0	-0.8	5.3	-1.3	-2.4	-1.6	-1.8	-3.3	-2.8	-3.0	-2.2
3.....	-1.6	0.4	-0.6	6.0	-1.3	-2.4	-1.7	-1.2	-3.2	-2.9	-2.8	-1.8
4.....	-1.4	0.0	-0.6	6.2	-1.5	-2.3	-1.5	-1.2	-3.2	-2.9	-2.4	-1.6
5.....	-1.4	-0.4	-0.8	6.0	-1.6	-2.3	-1.7	-1.1	-3.2	-2.9	-2.4	-1.6
6.....	-1.6	-0.4	-0.5	6.0	-1.6	-2.4	-1.7	-1.0	-3.2	-2.9	-2.4	-1.6
7.....	-1.4	-0.3	-0.1	5.5	-1.6	-1.8	-1.9	-0.9	-3.3	-2.9	-2.4	-1.6
8.....	-1.4	-0.3	0.2	5.2	-1.6	-1.5	-1.9	-0.7	-3.3	-2.9	-2.4	-1.6
9.....	-1.6	-0.6	-0.1	5.0	-1.6	-1.5	-1.8	-0.7	-3.3	-2.9	-2.4	-1.6
10.....	-1.6	-0.4	-0.1	4.6	-1.6	-1.6	-1.9	-0.6	-3.4	-2.9	-2.4	-1.6
11.....	-1.6	-0.2	-1.0	4.2	-1.8	-1.8	-1.9	-0.6	-3.4	-2.9	-2.4	-1.7
12.....	-1.6	-0.2	-1.0	4.0	-1.8	-1.8	-1.8	0.0	-3.5	-2.9	-2.4	-1.8
13.....	-1.5	-0.5	-1.0	3.7	-1.9	-1.9	-1.8	-0.4	-3.5	-2.9	-2.5	-1.8
14.....	-1.6	-0.7	-1.2	3.4	-2.0	-1.9	-2.0	-0.8	-3.5	-2.9	-2.6	-1.8
15.....	-1.7	-0.8	1.3	3.0	-2.2	-2.0	-2.2	-1.0	-3.5	-2.9	-2.6	-1.8
16.....	-1.7	-1.0	1.3	2.8	-2.3	-2.0	-2.6	-2.0	-3.5	-2.9	-2.6	-1.8
17.....	-2.0	-1.1	1.0	2.0	-2.3	-2.0	-2.6	-2.5	-3.5	-3.0	-2.6	-1.8
18.....	-1.9	-1.2	1.7	1.6	-2.3	-2.0	-2.7	-2.9	-3.5	-3.0	-2.6	-1.8
19.....	-1.9	-1.2	1.6	0.8	-2.4	-2.1	-2.8	-2.9	-3.5	-3.0	-2.6	-1.8
20.....	-1.9	-1.2	1.4	0.4	-2.4	-2.2	-2.9	-2.9	-3.5	-3.0	-2.6	-1.8
21.....	-2.0	-1.1	1.7	0.1	-2.4	-2.2	-2.9	-3.1	-3.2	-3.0	-2.6	-1.8
22.....	-1.6	-1.0	1.7	0.0	-2.4	-2.2	-2.8	-3.2	-3.2	-3.0	-2.4	-1.8
23.....	-1.6	-0.8	1.7	-0.3	-2.4	-2.3	-2.2	-3.2	-2.8	-3.0	-2.4	-1.9
24.....	0.0	-1.0	1.4	-0.5	-2.4	-2.3	-2.0	-3.7	-2.8	-3.0	-2.4	-1.9
25.....	1.0	-0.9	1.4	-0.6	-2.5	-2.3	-1.9	-3.1	-2.8	-3.0	-2.4	-1.8
26.....	.....	-0.9	2.6	-0.6	-2.5	-2.3	-1.9	-3.1	-2.8	-3.0	-2.5	-1.7
27.....	1.7	-0.3	2.8	-0.8	-2.5	-2.3	-1.5	-3.1	-2.8	-3.0	-2.5	-1.5
28.....	1.9	-0.7	2.9	-0.9	-2.5	-1.8	-0.8	-3.2	-2.8	-3.0	-2.5	-1.4
29.....	2.0	-0.9	3.5	-1.0	-2.5	-2.0	-0.8	-3.2	-2.8	-3.0	-2.5	-1.0
30.....	1.4	.....	3.5	-1.2	-2.5	-1.8	-1.2	-3.3	-2.8	-3.1	-2.2	1.5
31.....	1.6	.....	3.5	.....	-2.3	.....	-1.5	-3.3	.....	-3.1	.....	2.5
<b>Means.</b>	<b>-1.0</b>	<b>-0.5</b>	<b>0.8</b>	<b>2.5</b>	<b>-2.0</b>	<b>-2.1</b>	<b>-1.9</b>	<b>-2.0</b>	<b>-3.2</b>	<b>-2.9</b>	<b>-2.5</b>	<b>-1.6</b>

## DESCRIPTION OF RIVER GAGES, ETC.

## MOBILE RIVER SYSTEM—TOMBIGBEE RIVER, VIENNA, ALA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.												0.0
2.												0.3
3.												0.7
4.												
5.												1.7
6.												2.0
7.												2.2
8.												2.3
9.												2.4
10.												2.5
11.												
12.												2.5
13.												2.2
14.												2.1
15.												1.9
16.												1.6
17.											-0.2	1.0
18.											-0.3	
19.											-0.3	0.9
20.												0.9
21.											-0.3	0.9
22.											-0.0	0.7
23.											-0.1	0.6
24.											-0.0	0.6
25.											-0.2	1.7
26.											-0.2	2.0
27.												2.0
28.											-0.3	5.9
29.											-0.3	5.8
30.											-0.3	6.1
31.												6.5
Mean.												2.1

## MOBILE RIVER SYSTEM—TOMBIGBEE RIVER, DEMOPOLIS, ALA.

1900												
1.	18.7	6.7	25.6	44.3	55.6	8.0	53.6	18.0	2.2	0.0	7.9	15.9
2.	15.5	5.8	27.8	41.7	53.6	9.0	54.8	18.2	2.9	-0.3	7.6	14.5
3.	12.3	5.0	28.3	38.2	52.0	12.3	55.3	16.6	3.5	-0.6	7.3	12.5
4.	10.6	5.5	28.6	34.3	50.5	16.8	55.3	13.8	3.7	-0.8	8.6	10.9
5.	8.8	7.6	28.5	29.7	48.0	22.3	54.9	11.0	3.5	-0.8	10.5	10.0
6.	7.5	9.0	26.8	25.0	44.0	26.0	54.4	8.5	3.3	-0.9	8.8	8.0
7.	6.6	8.7	25.0	20.1	39.4	28.9	53.7	7.3	2.9	-0.9	9.0	7.5
8.	5.8	10.8	23.8	16.4	34.1	31.7	52.9	5.4	2.4	2.0	7.7	7.7
9.	4.9	12.8	22.3	13.6	28.4	34.6	51.9	4.2	1.7	2.4	6.7	7.4
10.	4.3	13.5	29.1	12.9	23.0	37.1	50.6	3.5	1.4	1.9	4.9	7.8
11.	7.5	20.9	32.4	12.6	17.4	39.4	48.9	3.0	1.2	3.2	4.0	6.9
12.	16.7	24.9	33.6	24.0	13.3	41.2	46.6	2.6	0.7	6.4	3.2	6.2
13.	24.6	35.3	34.2	31.0	11.8	42.2	42.5	2.4	0.4	9.0	2.3	5.7
14.	29.9	39.3	33.9	35.7	10.5	43.0	38.2	2.2	1.0	12.9	2.1	5.6
15.	30.8	40.7	32.5	38.5	9.5	43.3	34.1	1.9	2.8	16.3	1.8	6.5
16.	33.0	44.4	30.4	40.8	8.6	43.5	28.8	1.8	4.5	17.7	1.6	6.4
17.	33.3	40.8	28.5	50.0	7.5	44.5	23.7	1.6	5.5	17.0	1.3	5.7
18.		40.2	27.6	57.0	6.5	45.3	18.0	1.4	5.9	15.1	1.3	5.5
19.	25.4	39.4	26.7	58.3	5.7	45.9	13.6	1.3	5.6	11.8	1.2	5.0
20.	21.3	38.1	29.0	64.1	5.1	46.0	9.6	1.2	5.0	8.3	1.7	5.1
21.	18.5	35.7	33.7	67.7	4.7	46.2	8.7	1.5	3.0	6.7	2.9	9.0
22.	18.9	34.1	36.9	68.7	4.4	46.8	9.2	2.3	2.0	5.4	5.0	11.5
23.	20.2	32.5	39.5	68.5	4.5	47.1	10.1	2.7	1.2	3.7	7.3	11.8
24.	21.0	30.4	40.7	67.5	4.5	47.8	10.9	3.3	0.8	3.2	8.0	12.0
25.	20.4	30.2	44.4	65.9	4.8	48.5	10.2	2.7	0.6	3.1	10.0	14.5
26.	18.9	29.9	45.8	64.1	5.3	49.1	9.5	2.5	0.5	4.6	11.6	16.4
27.	16.0	28.7	46.8	62.0	6.6	49.6	9.2	2.7	0.4	6.4	13.5	17.9
28.	12.8	27.2	47.3	59.8	8.1	50.2	8.8	4.5	0.2	6.9	14.5	17.8
29.	11.0		47.6	58.2	8.5	51.0	11.2	4.8	0.2	8.4	15.9	17.1
30.	9.4		47.4	57.1	7.7	52.3	16.0	3.9	0.2	9.4	16.6	16.5
31.	7.7		46.3		7.5		17.5	3.3		8.7		17.6
Means.	16.4	24.9	33.9	44.3	19.1	38.3	31.1	5.2	2.3	6.0	6.8	10.4

## DESCRIPTION OF RIVER GAGES, ETC.

419

## MOBILE RIVER SYSTEM—TOMBIGBE RIVER, DEMOPOLIS, ALA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	19.6	20.8	10.0	30.4	20.0	13.8	0.5	-1.5	10.0	1.2	-1.5	0.8
2.....	20.8	16.2	9.8	29.8	15.7	13.6	0.3	-1.6	8.4	1.5	-1.6	0.7
3.....	21.3	18.6		29.0	12.3	11.1	0.0	-1.9	6.6	5.6	-1.6	1.0
4.....	20.2	27.0	11.4	29.6	10.0	12.9	0.6	-2.2	5.0	5.2	-1.6	2.5
5.....	18.3	32.1	11.8	30.2	8.8	15.1	0.6	-2.3	3.9	4.8	-1.6	2.0
6.....	15.9	34.3	11.9	30.4	7.2	17.2	0.6	-2.3	3.2	3.8	-1.6	1.9
7.....	13.8	36.2	11.6	29.9	7.2	17.4	0.6	-2.0	2.4	2.7	-1.5	1.6
8.....	11.6	39.0	9.9	29.2	6.9	18.0	0.3	-1.5	1.8	1.9	-1.3	1.6
9.....	10.0	41.0	10.1	27.6	6.3	16.2	0.2	-1.7	1.4	1.1	-1.2	1.5
10.....	8.7	41.9		25.0	5.6	14.1	0.2	-1.9	1.0	0.8	-1.2	5.0
11.....	9.0	42.2	11.9	21.5	5.0	10.5	0.0	-2.0	0.7	0.2	-1.2	6.7
12.....	23.0	42.1	17.3	17.8	4.8	8.7	-0.2	-2.0	0.4	0.0	-1.3	5.8
13.....	33.7	41.9	27.1	15.8	4.8	6.9	-0.5	-2.0	-0.1	0.0	-1.2	5.2
14.....	37.6	41.4	27.3	15.5	5.6	5.6	-0.9	-2.0	0.6	0.3	-1.3	5.3
15.....	41.1	40.6	29.5	15.0	5.7	5.0	-1.2	-1.8	0.7	0.8	-1.3	14.6
16.....	43.1	40.0	30.7	13.8	8.2	4.6	-1.3	2.7	0.8	0.9	-1.3	22.7
17.....	45.3	37.0	30.9	13.0	10.0	4.0	-1.5	9.5	3.0	1.1	-1.4	27.6
18.....	47.3	33.6	30.5	15.4	10.5	3.6	-0.8	17.4	5.4	1.4	-1.4	30.0
19.....	48.0	28.8	29.2	29.4	9.7	3.2	0.1	23.7	5.8	1.3	-0.8	32.3
20.....		24.6	28.6	35.9	8.7	2.9	0.5	27.1	8.8	1.0	-0.2	31.6
21.....	49.6	20.0	27.8	38.3	8.4	2.5	1.2	28.9	11.7	0.8	-0.2	30.1
22.....	49.1	16.8	26.0	39.4	10.6	2.2	2.0	30.2	11.3	0.3	-0.3	27.0
23.....	48.3	14.2	23.8	40.2	14.0	1.6	2.6	31.9	10.5	0.0	0.1	21.8
24.....	46.7	12.8	21.4	40.6	17.0	1.3	2.7	33.3	8.3	-0.4	0.4	17.4
25.....	43.6	11.8	19.8	40.7	18.1	1.0	2.2	34.2	6.0	-0.7	0.6	13.3
26.....	39.6	11.1	19.3	39.9	17.6	0.7	1.5	34.1	4.2	-0.9	0.9	10.8
27.....	35.8	10.8	20.5	38.0	15.6	0.6	0.5	32.7	3.0	-1.0	1.1	
28.....	32.4	10.3	21.9	34.3	12.9	0.3	0.2	29.2	2.1	-1.2	1.0	9.7
29.....	29.0		23.3	29.8	10.6	0.1	-0.7	24.1	1.7	-1.4	0.9	21.2
30.....	25.9		24.2	25.0	9.4	0.7	-1.1	18.2	1.2	-1.4	1.0	30.1
31.....	22.9		28.5		10.1		-1.4	13.1		-1.5		35.2
<b>Means.</b>	<b>30.4</b>	<b>28.1</b>	<b>20.8</b>	<b>28.3</b>	<b>7.0</b>	<b>7.2</b>	<b>0.3</b>	<b>3.3</b>	<b>4.3</b>	<b>0.9</b>	<b>-0.7</b>	<b>13.9</b>
<b>1902</b>												
1.....	37.1	31.3	31.4	61.0	7.0	1.4	-1.2	-1.5	0.5	0.2	-1.8	10.6
2.....	38.7	37.6	35.3	63.7	6.7	1.6	-1.3	-1.5	-0.1	-0.1	-1.9	11.0
3.....	39.0	40.8	36.1	64.5	8.0	1.6	-1.4	-1.2	-0.1	0.2	-2.0	12.5
4.....	39.0	42.5	36.6	64.3	8.2	1.3	-1.5	-0.3	2.1	1.0	-2.0	14.2
5.....	38.4	44.2	37.0	63.4	8.1	1.1	-1.5	1.0	4.4	1.4	-2.2	16.9
6.....	37.3	44.5	38.0	62.4	7.6	0.9	-1.6	1.4	5.0	2.2	-2.4	17.5
7.....	35.9	45.5	38.3	61.3	6.5	0.7	-1.6	1.7	3.9	2.2	-1.8	17.7
8.....	31.5	45.9	38.0	60.3	5.9	0.5	-1.7	1.8	2.8	1.6	-1.5	17.0
9.....	27.5	45.7		59.0	6.5	0.3	-1.7	1.5	2.1	1.0	-1.4	15.7
10.....	22.7	45.1	36.6	57.1	6.1	0.1	-1.8	0.9	1.8	0.6	-1.2	14.1
11.....	17.7	44.0	35.1	55.9	5.9	0.0	-1.9	0.3	1.4	3.3	-1.2	12.3
12.....	13.4	41.7	33.1	54.8	5.6	-0.2	-1.9	-0.4	0.8	6.9	-1.0	10.5
13.....	10.5	38.0	30.6	54.0	5.1	-0.4	-1.9	-1.0	0.2	8.9	-1.1	9.2
14.....	8.8	32.8	27.9	53.0	4.6	-0.6	-2.0	-1.3	-0.6	9.5	-1.0	8.1
15.....	8.2	27.6	25.9	51.9	4.0	-0.4	-2.0	-1.5	-1.2	8.7	-1.2	6.8
16.....	6.9	23.4	25.8	50.5	3.7	-0.3	-1.9	-1.8	-1.5	6.5	-1.4	15.0
17.....	6.2	21.0	27.7	48.6	4.3	-0.5	-1.8	-2.1	-1.8	4.5	-1.5	24.7
18.....	5.7	20.8	28.7	45.5	4.5	-0.7	-1.4	-2.3	-2.0	3.2	-0.8	28.5
19.....	5.5	21.2	29.3	41.1	5.4	-0.5	-1.5	-2.4	-2.1	2.5	-0.6	29.6
20.....	5.8	21.1	29.4	35.9	6.0	-0.7	-1.8	-2.4	-2.2	1.8		30.1
21.....	8.2	20.8	28.6	31.0	5.6	-0.8	-1.8	-2.6	-2.3	2.6	-0.5	30.0
22.....	12.0	20.3	27.1	26.3	5.2	-0.6	-2.2	-2.6	-2.1	4.2	-0.6	30.0
23.....	14.9	19.9	25.5	21.2	4.6	-0.1	-2.0	-2.7	-2.2	2.8	-0.5	29.5
24.....	17.6	18.8	24.0	17.2	3.9	-0.3	-1.9	-2.8	-1.9	0.7	-0.6	29.0
25.....	19.3	19.2	27.2	14.0	3.4	-0.5	-1.9	-2.9	-1.6	-0.1	0.0	28.8
26.....	19.9	20.2	28.1	11.6	2.7	-0.5	-2.0	-3.0	-1.6	-0.5	1.7	27.8
27.....	19.5	20.8	31.1	10.0	2.3	-0.3	-1.9	-3.1	-1.4	-0.7	3.0	26.0
28.....	19.8	26.0	44.9	9.0	2.1	-0.5	-1.8	-2.5	-1.2	-1.0	5.1	23.0
29.....	21.6		50.4	8.3	1.9	-0.8	-1.9	1.1	-0.4	-1.2	8.6	
30.....	23.7		53.4	7.8	1.6	-1.0	-1.7	-0.6	0.4	-1.4	9.6	19.0
31.....	25.9		55.6		1.4		-1.5	-0.6		-1.6		18.4
<b>Means.</b>	<b>20.6</b>	<b>31.5</b>	<b>33.9</b>	<b>42.2</b>	<b>5.0</b>	<b>0.0</b>	<b>-1.7</b>	<b>-1.0</b>	<b>0.0</b>	<b>2.3</b>	<b>-0.1</b>	<b>13.4</b>

## DESCRIPTION OF RIVER GAGES, ETC.

MOBILE RIVER SYSTEM—TOMBIGBEE RIVER, DEMOPOLIS, ALA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	17.3	18.7	54.1	21.3	6.7	4.6	6.5	0.7	-1.1	-3.1	-2.4	-1.9
2.....	17.8	19.4	53.5	20.5	5.9	6.2	5.4	3.4	-1.3	-3.1	-2.1	-1.9
3.....	20.8	22.3	53.5	18.7	5.3	9.3	4.5	4.5	-1.5	-3.1	-1.5	-1.9
4.....	25.6	26.0	53.0	17.7	4.9	12.2	3.3	4.0	-1.6	-3.1	1.0	-1.9
5.....	28.0	28.3	52.8	16.2	4.6	12.6	2.5	4.2	-1.7	-3.1	1.5	-2.0
6.....	29.0	30.1	52.3	14.6	4.3	12.8	1.8	3.7	-1.8	-3.1	1.1	-2.0
7.....	30.6	32.0	50.8	13.0	3.9	12.5	1.5	3.2	-1.8	-3.1	1.0	-1.9
8.....	29.1	38.2	50.0	12.0	3.7	12.8	2.2	2.5	-1.9	-3.0	0.9	-1.9
9.....	27.7	42.7	49.5	11.5	3.5	13.0	2.8	1.7	-2.1	-3.0	0.9	-1.4
10.....	26.1	45.4	49.0	11.3	3.4	12.0	2.4	1.0	-2.2	-3.1	0.6	-1.6
11.....	25.7	47.7	49.0	12.6	3.4	.....	2.6	0.8	-2.2	-3.2	-0.2	-1.7
12.....	25.9	49.6	49.4	15.2	3.8	10.3	3.1	1.4	-2.3	-3.2	-0.5	-1.7
13.....	30.5	51.5	49.5	16.4	9.6	9.6	3.5	1.6	-2.3	-3.3	-1.0	-1.5
14.....	31.9	53.4	49.6	16.0	21.0	8.8	4.0	2.2	-2.3	-3.3	-1.3	-1.4
15.....	32.3	55.4	49.7	15.0	34.8	8.2	3.5	2.5	-2.4	-3.3	-1.4	-1.3
16.....	32.0	57.4	49.8	16.7	37.9	6.8	2.8	2.6	-2.6	-3.2	-1.4	-1.3
17.....	31.0	58.9	49.7	19.0	38.7	5.4	2.1	2.7	-2.5	-3.1	-1.4	-1.2
18.....	29.1	59.4	49.7	20.5	39.0	4.3	1.8	2.7	-2.4	-2.8	-1.4	-1.1
19.....	26.7	59.7	49.4	19.9	38.9	3.4	1.5	2.9	-2.6	-2.7	-1.4	-1.1
20.....	23.8	59.9	49.0	18.4	38.9	2.8	1.6	3.0	-2.7	-2.7	-1.5	-1.0
21.....	20.0	60.1	48.7	15.6	38.5	2.4	1.3	3.4	-2.7	-2.8	-1.5	-0.8
22.....	17.0	60.7	48.0	13.4	37.4	2.2	0.8	3.0	-2.8	-2.8	-1.7	-0.3
23.....	15.8	60.5	47.1	13.0	35.1	3.2	0.5	2.5	-2.8	-2.8	-1.8	0.1
24.....	13.7	59.4	45.9	12.9	30.8	3.5	0.1	2.0	-2.9	-2.9	-1.8	1.1
25.....	12.0	58.0	44.1	11.9	25.8	3.3	-0.3	1.5	-2.9	-2.7	-1.8	1.3
26.....	10.9	56.4	41.6	11.2	19.0	9.6	-0.6	0.9	-3.0	-2.6	-1.8	3.2
27.....	10.0	54.8	38.6	10.3	13.0	12.8	-0.7	0.3	-3.0	-2.7	-1.8	2.9
28.....	12.2	54.4	35.0	9.2	9.1	12.0	-0.8	-0.3	-3.0	-2.8	-1.8	2.3
29.....	14.2	.....	30.4	8.4	6.9	9.0	-1.0	-0.8	-3.0	-2.8	-1.9	2.1
30.....	16.5	.....	27.0	7.6	5.4	7.8	-1.1	-1.0	-3.1	-2.8	-1.9	1.5
31.....	17.5	.....	24.2	.....	4.8	.....	-0.8	-1.2	.....	-2.6	.....	1.2
<b>Means.</b>	<b>22.6</b>	<b>47.2</b>	<b>46.6</b>	<b>14.7</b>	<b>17.4</b>	<b>8.0</b>	<b>1.8</b>	<b>2.0</b>	<b>-2.3</b>	<b>-3.0</b>	<b>-0.9</b>	<b>-0.6</b>
<b>1904</b>												
1.....	.....	4.2	.....	19.2	2.4	-1.9	-0.8	1.1	-2.3	-3.4	-3.8	-2.5
2.....	0.4	3.9	2.8	17.8	2.2	-1.6	0.1	1.5	-2.7	-3.3	-3.7	-2.5
3.....	0.2	3.7	.....	16.5	1.6	-0.3	4.0	2.5	-2.7	-3.3	-3.4	-2.6
4.....	0.0	3.5	2.6	15.2	1.1	1.0	4.5	2.0	-2.7	-3.3	-3.2	-2.3
5.....	-0.2	3.3	2.4	14.4	1.0	1.4	3.1	1.6	-2.8	-3.4	-3.0	-0.6
6.....	-0.3	3.1	2.5	13.8	0.8	1.2	1.8	1.8	-2.6	-3.4	-2.6	1.8
7.....	-0.3	3.5	5.9	13.3	0.5	1.4	1.3	2.8	-2.6	-3.5	-2.7	3.4
8.....	0.2	5.0	8.0	13.0	0.2	0.7	1.4	6.9	-2.8	-3.5	-2.8	6.1
9.....	0.6	6.0	9.4	14.8	0.3	0.1	1.0	8.0	-2.9	-3.4	-2.8	7.7
10.....	1.4	7.1	11.4	16.6	0.2	-0.3	1.2	7.8	-2.9	-3.3	-2.5	7.1
11.....	2.2	15.5	12.1	17.1	0.2	-0.6	2.5	8.5	-2.9	-3.4	-2.4	5.6
12.....	2.0	18.0	11.2	16.7	0.2	-1.0	3.7	7.6	-3.0	-3.4	-2.4	3.8
13.....	1.9	16.0	9.8	15.0	0.2	-1.2	4.1	6.9	-3.0	-3.4	-2.6	2.8
14.....	1.7	12.7	8.4	12.2	0.4	-1.9	3.6	6.7	-3.0	-3.5	-2.7	2.1
15.....	1.5	9.9	7.8	9.8	0.5	-2.3	3.5	6.5	-3.1	-3.5	-2.8	1.6
16.....	1.3	7.7	8.7	8.0	0.3	-2.3	3.7	6.0	-3.1	-3.6	-2.8	1.2
17.....	1.0	6.0	11.5	7.0	-0.1	-2.4	2.9	6.5	-3.1	-3.6	-2.9	0.7
18.....	1.2	4.9	13.4	5.7	-0.3	-2.4	1.9	4.6	-3.2	-3.6	-2.9	0.2
19.....	1.3	4.1	13.6	5.0	-0.7	-2.5	-0.2	3.0	-3.3	-3.6	-2.9	-0.2
20.....	1.5	3.5	11.9	4.4	-1.0	-2.5	-0.3	1.9	-3.3	-3.6	-3.0	-0.5
21.....	1.6	3.2	10.4	4.0	-1.1	-2.6	-0.6	1.1	-3.4	-3.7	-3.0	-0.9
22.....	1.8	3.5	9.5	3.6	-1.2	-2.6	-1.3	0.5	-3.4	-3.7	-2.9	-1.1
23.....	7.0	3.9	8.5	3.3	-1.3	-2.4	-1.2	-0.2	-3.4	-3.7	-2.8	-1.3
24.....	8.1	4.5	7.7	3.0	-1.3	-2.6	1.4	-0.9	-3.4	-3.7	-2.7	-1.4
25.....	8.5	4.0	7.6	2.7	-1.4	-2.6	1.2	-1.4	-3.3	-3.7	-2.3	-1.4
26.....	8.6	4.1	9.3	2.8	-1.5	-2.1	1.0	-1.8	-3.0	-3.7	-2.4	-1.3
27.....	8.0	4.3	12.9	2.8	-1.5	-1.8	2.1	-2.1	-2.8	-3.7	-2.4	1.8
28.....	7.5	4.3	14.7	2.8	-1.6	-2.5	3.7	-2.3	-3.1	-3.8	-2.4	4.8
29.....	6.2	4.0	16.8	2.7	-1.7	-2.6	4.3	-2.4	-3.3	-3.8	-2.5	10.7
30.....	5.2	.....	18.9	2.6	-1.8	-1.7	2.8	-2.6	-3.4	-3.8	-2.5	15.5
31.....	4.8	.....	19.7	.....	-1.9	.....	1.8	-2.6	.....	-3.8	.....	17.3
<b>Means.</b>	<b>2.8</b>	<b>6.1</b>	<b>10.0</b>	<b>9.5</b>	<b>-0.2</b>	<b>-1.4</b>	<b>1.9</b>	<b>2.6</b>	<b>-3.0</b>	<b>-3.6</b>	<b>-2.8</b>	<b>2.4</b>

## DESCRIPTION OF RIVER GAGES, ETC.

415

## NEW ENGLAND SYSTEM—PENOBSCOT RIVER, MATTAWAMKEAG, ME.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....												10.5
2.....												11.1
3.....												10.8
4.....												10.6
5.....												10.7
6.....												10.5
7.....												Frozen.
8.....											11.5	
9.....											11.4	
10.....											10.6	
11.....											11.2	
12.....											11.0	
13.....											10.6	
14.....											10.8	
15.....											11.1	
16.....											11.1	
17.....											10.5	
18.....											11.3	
19.....											11.1	
20.....											11.2	
21.....											11.1	
22.....											11.1	
23.....											11.2	
24.....											10.4	
25.....											11.4	
26.....											11.0	
27.....											11.0	
28.....											11.2	
29.....											11.0	
30.....											11.2	
31.....												
Mean.....											11.0	
<b>1903</b>												
1.....	Frozen.	Frozen.	Frozen.	16.7							8.7	Frozen.
2.....				16.4							8.3	
3.....				16.4							8.5	
4.....	12.7			16.5							8.5	
5.....	11.6			16.5							8.5	
6.....	12.7			16.6							8.6	
7.....	12.6			16.3							8.6	
8.....	12.5			16.4							8.7	
9.....	12.3			16.6							8.7	
10.....	12.1			16.9							8.7	
11.....	Frozen.			17.0							8.6	
12.....			17.6	16.5							8.7	
13.....			18.7	16.3							8.7	
14.....			16.7	16.1							8.9	
15.....			16.4	15.9							8.9	
16.....			15.9	15.7							9.2	
17.....			15.7	15.5							9.3	
18.....			15.4	15.4							9.4	
19.....			15.3	15.2							9.4	
20.....			15.3	15.0							9.4	
21.....			15.4	14.9							9.2	
22.....			15.7	14.9							9.0	
23.....			15.8	14.8							8.9	
24.....			16.6	14.7							8.9	
25.....			17.4	14.7							9.0	
26.....			17.7	14.7							Frozen.	
27.....			17.7	15.1								
28.....			17.3	15.1								
29.....			17.2	14.9								
30.....			17.0	15.0								
31.....			16.8									
Means.....			16.6	15.8							8.9	

### DESCRIPTION OF RIVER GAGES, ETC.

**NEW ENGLAND SYSTEM—PENOBSCOT RIVER, MATTAWAMKEAG, ME.—Continued.**

[illegible]

**NEW ENGLAND SYSTEM—PENOBSCOT RIVER, MONTAGUE, ME.**

[illegible]

## NEW ENGLAND SYSTEM—PENOBSCOT RIVER, MONTAGUE, ME.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	Frozen.	Frozen.	Frozen.	11.5	8.5	3.8	3.5	4.6	3.2	1.7	1.4	1.8
2.....				11.2	8.0	4.2	3.6	4.2	3.2	1.6	1.5	1.7
3.....				11.0	7.6	4.0	3.6	4.0	3.1	1.5	1.6	1.6
4.....				11.0	7.6	3.6	3.4	3.7	3.2	1.6	1.5	1.6
5.....				11.8	7.6	3.4	3.6	3.6	3.0	1.5	1.4	1.7
6.....				11.5	7.4	3.4	3.9	3.4	2.7	1.4	1.3	1.7
7.....				11.1	7.3	3.0	3.5	3.2	3.0	1.4	1.3	1.6
8.....				10.9	7.0	2.8	3.7	3.1	3.0	1.4	1.4	1.6
9.....				11.5	7.1	2.8	4.1	3.2	2.9	1.4	1.7	1.6
10.....				12.3	7.1	3.4	4.7	3.2	3.0	1.3	1.6	1.6
11.....				12.2	7.0	3.3	4.9	3.2	2.8	1.3	1.6	1.7
12.....			17.0	11.6	7.0	3.4	4.4	3.8	2.6	1.2	1.7	1.8
13.....			13.6	11.1	7.0	3.9	3.9	3.6	2.7	1.4	2.1	2.0
14.....			13.5	10.7	6.9	5.0	3.7	3.4	2.6	1.5	2.5	2.4
15.....			13.0	10.5	6.4	5.8	4.0	3.5	2.6	1.5	2.6	Frozen.
16.....			12.1	10.2	6.2	4.5	3.8	3.6	2.8	1.5	2.6	
17.....			11.6	10.0	6.0	4.4	4.4	3.6	2.6	1.6	2.5	
18.....			11.0	9.6	5.8	4.2	4.4	3.6	2.6	1.6	2.5	
19.....			10.7	9.4	5.6	4.1	4.0	3.6	2.6	1.6	2.3	
20.....			11.0	9.3	5.2	4.0	4.2	4.0	2.5	1.6	2.1	
21.....			11.6	8.9	5.0	3.8	4.0	4.2	2.6	1.7	2.0	
22.....			11.8	8.6	5.0	3.4	3.8	4.3	3.4	1.6	1.9	
23.....			12.0	8.4	4.8	3.0	3.9	3.7	3.2	1.6	1.8	
24.....			12.5	8.4	4.6	3.4	3.8	3.3	2.4	1.6	1.8	
25.....			13.8	8.3	4.3	3.5	4.0	3.4	2.6	1.7	1.7	
26.....			13.8	8.4	4.3	3.4	4.0	3.3	2.2	1.8	1.8	
27.....			13.3	8.5	4.2	3.4	3.8	3.2	1.9	1.7	1.8	
28.....			12.9	8.4	4.2	3.5	3.6	3.1	2.0	1.6	1.8	
29.....			12.1	8.5	4.1	3.6	3.9	3.2	2.0	1.5	1.7	
30.....			11.9	8.5	4.0	3.4	4.4	3.2	1.8	1.5	1.8	
31.....			11.4		3.7		5.2	3.1		1.4		
Means.			12.5	10.1	6.0	3.7	4.0	3.7	2.7	1.5	1.8	
<b>1904</b>												
1.....	Frozen.	Frozen.	Frozen.	Frozen.							4.7	3.2
2.....											4.5	3.1
3.....											4.5	3.4
4.....											4.3	3.4
5.....											4.2	3.5
6.....											4.1	3.5
7.....											4.1	3.4
8.....											4.5	3.7
9.....				8.5							4.4	3.8
10.....				9.4							4.3	4.2
11.....				10.6							4.2	4.3
12.....				11.2							4.1	4.2
13.....				11.1							4.1	Frozen.
14.....				10.5							4.0	
15.....				10.0							4.0	
16.....				9.3							3.7	
17.....				8.4							3.6	
18.....				7.9							3.5	
19.....				7.8							3.6	
20.....				7.9							3.6	
21.....				7.7							3.5	
22.....				7.7							3.9	
23.....				7.9							3.9	
24.....				8.7							3.9	
25.....				8.7							3.8	
26.....				9.8							3.7	
27.....				10.1							3.7	
28.....				10.2							3.4	
29.....				10.5							3.3	
30.....				11.0							3.2	
31.....												
Means.				9.3							3.9	

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1											2.1	1.0
2											1.9	0.3
3											1.7	0.3
4											0.7	0.2
5											0.0	0.2
6											0.0	0.0
7											0.4	1.0
8											0.4	0.6
9											0.4	0.0
10											0.6	0.0
11											0.0	0.3
12											0.0	0.3
13											0.0	0.3
14											0.1	0.9
15											0.3	0.8
16											1.0	0.3
17											0.3	0.5
18											0.5	0.6
19											0.5	0.5
20											0.5	0.4
21											0.5	0.9
22											0.5	0.8
23											1.0	0.6
24											0.5	0.6
25											0.5	0.7
26											0.5	0.9
27											0.5	0.9
28											0.5	0.7
29											0.4	0.7
30											1.0	0.7
31												0.4
<b>Means.</b>											<b>0.6</b>	<b>0.5</b>
<b>1903</b>												
1	0.5	0.8	2.0									
2	0.4	1.0	2.0									
3	0.4	0.3	2.0									
4	0.9	0.3	2.0									
5	0.7	0.3	1.8									
6	0.4	0.3	1.8									
7	0.3	0.3	1.7									
8	0.3	0.8	2.0									
9	0.3	0.8	2.0									
10	0.2	0.3	2.0									
11	0.9	0.5	2.6									
12	0.8	0.5	3.6									
13	0.3	0.5	2.6									
14	0.3	0.5	2.6									
15	0.3	0.8	3.2									
16	0.8	0.8	2.7									
17	0.8	0.5	2.7									
18	0.9	0.3	2.5									
19	1.0	0.3	1.8									
20	0.3	0.3	2.2									
21	0.3	0.3	3.3									
22	0.6	0.8	3.9									
23	0.6	0.6	3.9									
24	0.6	0.4	4.0									



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	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1											5.2	4.8
2											4.9	4.7
3											4.5	4.4
4											4.3	4.4
5											4.0	3.7
6											4.8	3.0
7											4.7	4.0
8											4.8	4.2
9											4.9	3.9
10											4.6	4.1
11											4.6	3.7
12											4.4	4.7
13											4.3	4.7
14											4.7	4.6
15											4.9	4.6
16											5.2	4.6
17											5.4	4.8
18											5.2	5.2
19											5.3	5.4
20											5.1	5.2
21											5.0	5.0
22											5.0	5.1
23											5.1	5.5
24											5.0	5.7
25											4.9	5.3
26											4.8	5.1
27											4.9	5.2
28											4.8	5.2
29											4.9	5.1
30											4.4	4.9
31												4.9
<b>Means.</b>											4.8	4.7
<b>1903</b>												
1	4.7	5.1	5.5	4.6							2.4	4.0
2	4.8	5.1	6.0	4.8							1.9	3.8
3	4.8	4.9	6.1	4.1							3.7	3.5
4	5.0	4.8	6.0	4.6							3.2	3.8
5	4.9	4.7	5.8	6.2							3.5	3.4
6	4.9	4.7	5.7	6.1							2.4	2.4
7	4.8	4.6	5.6	5.9							1.7	2.2
8	4.8	4.8	5.4	6.0							2.6	0.4
9	4.7	4.6	6.0	6.3							2.7	3.9
10	4.7	4.6	6.7	6.0							3.7	3.8
11	4.9	4.6	7.3	6.3							3.8	3.7
12	4.1	4.6	8.5	5.9							3.3	4.2
13	4.5	4.9	8.0	5.6							2.5	2.5
14	4.2	5.1	7.6	4.6							2.7	1.5
15	4.1	5.0	7.5	4.8							4.0	2.4
16	4.3	4.8	7.5	4.9							1.0	1.0
17	4.6	4.8	6.8	5.6							3.6	1.1
18	4.9	4.7	6.5	5.2							3.7	0.9
19	4.6	4.7	6.5	5.4							3.7	0.5
20	4.2	4.7	7.1	4.7							3.6	-0.9
21	4.1	4.6										

### DESCRIPTION OF RIVER GAGES, ETC.

## NEW ENGLAND SYSTEM—KENNEBEC RIVER, WINSLOW, ME.—Continued.

[illegible]

NEW ENGLAND SYSTEM,—MERRIMAC RIVER, FRANKLIN JUNCTION, N. H.

[illegible]

**NEW ENGLAND SYSTEM—MERRIMAC RIVER, CONCORD, N. H.**

[illegible]

## DESCRIPTION OF RIVER GAGES, ETC.

NEW ENGLAND SYSTEM—MERRIMAC RIVER, CONCORD, N. H.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1	Frozen.	Frozen.	Frozen.	5.9							1.2	Frozen.
2				5.5							1.0	
3				5.0							1.0	
4				5.0							1.0	
5				5.7							1.0	
6				5.1							1.1	
7				4.7							1.1	
8			4.4	4.6							1.3	
9			4.9	4.8							1.0	
10			6.5	5.0							1.0	
11			7.0	4.9							1.0	
12			8.0	4.7							1.0	
13			8.5	4.3							1.0	
14			7.4	4.1							1.0	
15			6.9	4.0							1.1	
16			6.4	4.0							0.9	
17			5.6	4.3							0.9	
18			5.7	4.2							1.2	
19			5.3	4.1							1.4	
20			5.5	3.8							1.4	
21			6.8	3.6							1.2	
22			7.4	3.5							1.2	
23			7.3	3.4							1.0	
24			7.5	3.2							1.0	
25			7.8	3.1							1.0	
26			7.5	3.1							Frozen.	
27			6.0	2.9								
28			5.3	2.8								
29			5.2	2.8								
30			4.9	2.8								
31			4.9									
Means.			6.4	4.2							1.1	
<b>1904</b>												
1	Frozen.	Frozen.	Frozen.	3.1							1.3	Frozen.
2				3.2							1.2	
3				4.0							1.2	
4				3.5							1.2	
5				3.2							1.2	
6				3.2							1.4	
7				3.4							1.1	
8				4.0							1.3	
9				4.1							1.1	
10				5.3							1.0	
11				6.0							1.0	
12				5.2							1.0	
13				4.4							1.2	
14				3.8							1.0	
15				3.2							1.2	
16				2.9							1.2	
17				2.8							1.2	
18				2.6							1.0	
19				2.6							0.8	
20				2.7							0.8	
21				2.9							1.0	
22				2.7							1.0	
23				2.7							1.2	
24				2.8							1.2	
25				2.9							1.0	
26				3.5							0.8	
27			5.1	3.5							0.8	
28			5.7	3.8							0.6	
29			4.8	6.0							Frozen.	
30			3.7	6.9								
31			3.3									
Means.				3.7							1.1	

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	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1											2.8	3.2
2											3.2	3.4
3											1.8	3.5
4											2.8	3.6
5											2.6	3.6
6											3.2	3.0
7											3.2	4.1
8											3.2	3.1
9											3.9	3.
10											2.8	3.1
11											3.6	3.2
12											3.5	3.3
13											3.5	3.2
14											3.7	3.9
15											3.8	3.1
16											4.5	3.1
17											3.7	3.5
18											3.6	4.2
19											3.6	4.6
20											3.6	4.4
21											3.6	4.6
22											3.6	4.1
23											4.2	4.6
24											3.3	4.9
25											3.5	4.9
26											3.4	3.9
27											4.1	3.8
28											3.5	4.0
29											3.5	2.9
30											4.1	2.8
31												2.8
<b>Means.</b>											3.4	3.7
<b>1903</b>												
1	2.7	4.4	4.7	3.4							3.8	1.8
2	2.7	3.8	4.9	3.3							3.0	0.9
3	2.7	3.7	4.6	2.9							3.0	1.0
4	3.7	3.6	4.1	2.7							3.2	2.6
5	3.1	3.8	3.7	3.7							3.1	2.3
6	3.1	3.7	3.4	2.9							3.2	2.9
7	2.9	3.7	3.3	2.4							3.1	2.8
8	2.8	4.0	3.6	2.3							3.6	2.9
9	2.5	2.9	3.2	2.5							2.9	2.9
10	2.3	3.3	3.9	2.7							2.9	2.9
11	3.2	3.9	4.7	2.6							3.0	3.0
12	1.9	3.4	5.5	3.0							3.2	2.7
13	3.4	3.9	6.1	2.0							3.1	3.1
14	3.4	4.2	5.2	2.4							3.1	2.7
15	3.5	4.6	5.1	2.3							3.7	3.2
16	3.2	3.9	4.2	2.3							2.9	3.3
17	3.2	3.7	3.6	2.6							2.7	3.1
18	3.9	3.4	3.1	2.5							3.2	3.0
19	2.8	3.4	3.1	3.1							3.5	2.2
20	2.9	3.2	3.0	2.1							3.5	3.3
21	3.0	3.3	3									

## DESCRIPTION OF RIVER GAGES, ETC.

NEW ENGLAND SYSTEM—MERRIMAC RIVER, MANCHESTER, N. H.—Continued.

[illegible]

**NEW ENGLAND SYSTEM—CONNECTICUT RIVER, WELLS RIVER, VT.**

[illegible]

## NEW ENGLAND SYSTEM—CONNECTICUT RIVER, WELLS RIVER, VT.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	Frozen.	Frozen.	Frozen.	26.8							24.3	Frozen.
2.....				26.5							24.3	
3.....				26.0							24.5	
4.....				26.5							24.7	
5.....				27.0							24.7	
6.....				27.0							24.9	
7.....				26.5							25.0	
8.....			24.3	26.0							25.3	
9.....			26.4	26.0							25.3	
10.....			27.9	26.0							25.1	
11.....			28.5	25.5							24.8	
12.....			29.5	25.5							24.8	
13.....			29.8	25.3							24.6	
14.....			29.5	25.0							24.6	
15.....			29.0	25.0							24.5	
16.....			28.6	24.7							24.5	
17.....			28.3	24.7							24.7	
18.....			28.8	24.5							24.9	
19.....			29.6	24.1							24.9	
20.....			29.9	24.0							24.6	
21.....			30.6	24.0							Frozen.	
22.....			31.5	23.7								
23.....			32.3	23.7								
24.....			32.8	23.2								
25.....			31.0	23.0								
26.....			29.5	23.0								
27.....			28.6	23.0								
28.....			28.0	23.0								
29.....			27.3	23.0								
30.....			26.0	23.0								
31.....			26.4									
Means.....			28.9	24.8							24.8	
<b>1904</b>												
1.....	Frozen.	Frozen.	Frozen.	26.0							25.0	Frozen.
2.....				26.5							25.0	
3.....				26.5							24.7	
4.....				26.4							24.6	
5.....				26.1							24.6	
6.....				26.7							24.4	
7.....				26.9							24.2	
8.....				27.4							24.0	
9.....				27.8							23.7	
10.....				28.6							23.6	
11.....				28.9							23.6	
12.....				29.4							23.4	
13.....				30.0							23.1	
14.....				29.6							23.1	
15.....				29.0							Frozen.	
16.....				28.2								
17.....				27.4								
18.....				26.5								
19.....				26.0								
20.....				26.0								
21.....				26.4								
22.....				26.8								
23.....				26.8								
24.....				27.0								
25.....				27.4								
26.....				27.0								
27.....			28.8	26.5								
28.....			28.2	27.0								
29.....			27.5	27.4								
30.....			27.0	28.0								
31.....			26.6									
Mean.....				27.3								

### DESCRIPTION OF RIVER GAGES, ETC.

**NEW ENGLAND SYSTEM CONNECTICUT RIVER, WHITERIVER JUNCTION, VT.**

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1901												
1											10.0	6.3
2											8.8	6.1
3											8.4	6.1
4											7.8	6.3
5											7.4	6.4
6											7.2	Frozen.
7											7.1	
8											6.9	
9											6.4	
10											6.7	
11											6.4	
12											6.3	
13											6.4	
14											6.5	
15											7.6	
16											7.4	
17											7.7	
18											7.4	8.4
19											7.1	8.3
20											6.8	8.3
21											6.7	8.2
22											6.6	8.2
23											6.3	15.5
24											6.4	Frozen.
25											6.6	
26											6.5	
27											6.4	
28											6.4	
29											6.2	
30											6.1	
31												
Mean											7.0	
1902												
1	Frozen.	Frozen.	14.6	13.2							4.5	4.5
2			11.3	12.3							4.7	4.5
3			10.7	11.3							4.7	4.5
4			10.2	11.3							4.7	4.5
5			9.7	12.3							4.7	4.5
6			8.9	12.7							4.7	4.3
7			8.3	12.1							4.7	4.5
8			8.3	11.6							4.5	4.6
9			14.1	11.7							4.7	4.6
10			14.3	11.6							4.7	4.5
11			16.4	11.4							4.7	4.5
12			19.3	10.9							4.7	4.5
13			18.8	10.3							4.7	4.7
14			17.3	9.8							4.5	4.7
15			16.4	9.7							4.5	5.0
16			13.9	9.6							4.7	5.0
17			13.1	9.8							4.5	5.0
18			14.6	9.8							4.5	5.0
19			13.8	9.6							4.5	5.0
20			14.3	9.3							4.5	5.2
21			16.9	9.1							4.5	7.5
22			18.3	9.2							4.3	8.5
23			18.3	9.1							4.5	Frozen
24			21.6	9.3							4.6	
25			20.7	9.3							4.6	
26			18.3	9.9							4.5	
27			16.9	9.3							4.5	
28			14.9	9.7							4.5	
29			13.7	9.0							4.5	
30			17.7									
Mean			14.7	9.8							4.6	5.0



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	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	Frozen.	Frozen.	Frozen.	9.7							6.4	5.5
2.....				9.5							6.3	5.5
3.....				10.0							6.3	Frozen
4.....				9.6							6.3	
5.....				9.2							6.2	
6.....				9.6							6.1	
7.....				9.8							6.0	
8.....				10.2							6.0	
9.....				11.8							6.0	
10.....				13.2							5.9	
11.....				14.3							5.8	
12.....				13.8							5.6	
13.....				13.0							5.6	
14.....				11.7							5.6	
15.....				10.3							5.5	
16.....				9.7							5.5	
17.....				8.6							5.5	
18.....				8.5							5.5	
19.....				8.5							5.6	
20.....				8.4							5.7	
21.....				8.5							5.7	
22.....				8.5							5.7	
23.....				8.8							5.6	
24.....			9.3	9.4							5.5	
25.....			12.3	9.9							5.5	
26.....			12.6	11.9							5.5	
27.....			13.4	12.3							5.4	
28.....			12.5	12.9							5.5	
29.....			11.8	13.8							5.5	
30.....			10.9	14.8							5.5	
31.....			10.3									
Means.				10.7							5.8	

[illegible]

## DESCRIPTION OF RIVER GAGES, ETC.

## NEW ENGLAND SYSTEM—CONNECTICUT RIVER, BELLOWS FALLS, VT.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	3.0	3.9	6.1	6.0							2.7	0.4
2.....	2.8	3.0	6.0	5.5							1.6	0.3
3.....	2.8	2.9	5.4	5.9							1.4	0.2
4.....	4.1	2.8	4.8	4.8							1.3	-0.4
5.....	3.7	2.8	4.5	5.9							1.5	-0.5
6.....	3.4	2.7	4.2	5.4							2.0	1.0
7.....	3.3	2.5	4.0	5.1							2.1	1.8
8.....	3.1	3.0	4.6	4.7							2.8	0.2
9.....	3.0	2.4	6.3	4.9							1.9	0.8
10.....	2.7	2.3	7.3	4.8							2.0	0.5
11.....	3.4	2.2	8.5	4.7							2.0	0.2
12.....	2.4	2.4	10.6	4.8							2.0	0.1
13.....	2.3	3.1	10.1	4.1							1.9	1.2
14.....	2.5	3.4	8.9	3.6							1.8	1.9
15.....	2.4	3.8	8.5	3.4							2.4	1.9
16.....	2.4	3.0	7.8	3.1							1.4	1.9
17.....	2.4	2.9	6.9	3.6							1.5	1.7
18.....	3.2	2.6	6.7	3.3							1.9	1.2
19.....	2.3	2.5	6.3	3.8							2.1	0.9
20.....	2.3	2.5	6.9	2.9							2.2	1.4
21.....	2.2	2.4	7.9	2.6							1.8	2.7
22.....	2.6	3.0	9.2	2.4							2.6	3.3
23.....	2.7	2.4	9.1	2.3							1.7	3.1
24.....	2.7	2.2	11.8	2.0							1.4	2.8
25.....	3.1	2.2	10.2	1.9							1.4	3.0
26.....	2.4	2.2	9.1	2.6							0.8	2.9
27.....	2.2	2.1	8.0	2.0							0.4	2.7
28.....	2.2	2.2	6.9	2.0							0.3	2.6
29.....	2.1		6.6	2.4							0.8	1.7
30.....	2.2		6.0	2.3							1.8	1.4
31.....	3.2		5.1									1.4
<b>Means.</b>	<b>2.7</b>	<b>2.7</b>	<b>7.2</b>	<b>3.8</b>							<b>1.7</b>	<b>1.4</b>
<b>1904</b>												
1.....	1.4	1.3	1.5	4.4							2.8	2.1
2.....	1.4	1.2	1.2	4.3							2.6	2.3
3.....	2.2	1.0	1.1	5.7							2.5	2.0
4.....	1.8	0.7	1.6	3.9							2.6	2.8
5.....	0.8	0.5	2.3	3.6							2.5	1.7
6.....	0.9	0.3	3.0	3.8							3.1	1.4
7.....	0.9	1.1	2.4	3.9							2.6	1.4
8.....	0.8	2.0	2.3	4.3							2.3	1.5
9.....	0.9	1.5	3.6	5.3							2.3	1.5
10.....	1.9	1.8	3.9	6.5							2.2	1.5
11.....	1.2	1.9	3.6	6.5							2.1	2.6
12.....	1.0	1.8	3.0	6.1							2.0	1.7
13.....	1.2	1.4	3.5	5.7							2.7	0.8
14.....	1.3	1.9	2.8	5.0							1.7	1.3
15.....	0.7	1.6	2.5	4.2							1.9	0.8
16.....	0.5	1.1	2.4	3.6							2.2	0.5
17.....	0.8	1.0	2.3	3.8							2.0	0.5
18.....	1.5	0.8	2.3	3.1							1.7	2.4
19.....	0.1	0.7	2.2	3.1							1.9	1.6
20.....	0.1	0.7	3.0	3.0							2.6	0.5
21.....	0.4	1.4	2.3	2.9							1.9	0.1
22.....	0.2	1.6	2.3	2.9							2.3	0.0
23.....	0.0	0.8	2.4	3.0							2.5	0.0
24.....	0.9	1.4	3.4	3.8							2.4	0.4
25.....	1.9	1.9	4.4	3.5							2.4	2.0
26.....	1.2	1.9	5.5	4.5							2.4	2.3
27.....	1.6	1.9	8.2	5.0							2.9	2.1
28.....	1.2	2.2	6.6	6.0							1.9	0.9
29.....	0.8	2.1	5.4	7.5							1.9	1.7
30.....	0.5		5.2	7.6							1.4	1.1
31.....	1.6		4.9									2.4
<b>Means.</b>	<b>1.0</b>	<b>1.4</b>	<b>3.3</b>	<b>4.6</b>							<b>2.3</b>	<b>1.4</b>

## 429

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1											5.5	2.8
2											5.4	2.5
3											4.5	2.5
4											4.0	2.6
5											3.6	2.9
6											3.4	2.7
7											3.3	2.9
8											3.3	2.2
9											3.9	1.7
10											3.2	0.7
11											2.9	0.3
12											2.8	1.8
13											2.8	2.3
14											2.8	3.3
15											3.2	2.6
16											3.9	2.1
17											3.5	2.7
18											3.2	4.2
19											3.1	3.9
20											3.0	3.7
21											3.0	3.9
22											2.9	3.5
23											3.6	5.2
24											2.9	5.2
25											2.7	5.0
26											2.6	4.1
27											2.8	3.6
28											2.7	3.9
29											2.7	3.1
30											3.3	2.8
31												2.7
<b>Means.</b>											<b>3.4</b>	<b>3.0</b>
<b>1903</b>												
1	2.6	3.5	4.0	5.5							3.0	2.0
2	2.4	3.1	5.3	5.7							2.9	1.0
3	2.4	2.8	6.3	5.2							1.1	0.2
4	3.6	2.7	5.1	5.1							1.0	0.1
5	3.6	3.4	4.5	5.7							1.1	0.7
6	3.4	3.6	4.1	5.3							0.1	2.1
7	3.1	3.1	3.8	5.0							-0.8	2.8
8	2.9	3.5	4.3	4.8							2.9	2.4
9	2.7	2.6	5.3	5.1							3.1	1.7
10	2.3	2.2	7.5	5.2							2.0	1.5
11	2.9	2.2	8.2	5.0							0.8	1.3
12	2.1	2.3	9.8	5.2							1.8	-0.8
13	1.9	3.1	9.7	4.8							1.3	1.5
14	1.8	3.5	9.1	3.9							0.2	3.1
15	1.9	4.1	8.5	3.6							2.8	2.9
16	2.0	3.3	7.6	3.5							2.9	2.7
17	2.0	2.8	6.9	3.6							1.4	2.4
18	2.8	2.7	6.4	3.6							1.9	2.1
19	2.1	2.4	6.1	4.0							3.4	0.8
20	1.6	2.2	5.9	3.2							3.1	2.8
21	1.6											



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	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	6.4	8.2	11.0	14.2							1.7	2.7
2.....	6.1	8.7	13.8	14.5							1.7	3.0
3.....	6.2	9.2	16.3	14.0							2.7	3.7
4.....	7.0	9.1	14.9	13.4							2.5	3.1
5.....	8.0	10.5	12.6	13.3							2.6	2.7
6.....	8.2	10.2	11.3	13.2							2.5	2.5
7.....	7.7	9.0	10.4	12.9							2.6	1.8
8.....	7.2	7.8	9.9	12.6							1.6	2.8
9.....	6.4	7.0	12.4	13.7							2.0	3.0
10.....	8.0	6.0	17.0	14.8							3.2	4.2
11.....	8.7	6.0	18.8	14.2							3.2	3.0
12.....	9.2	7.0	21.0	13.2							3.2	2.8
13.....	8.9	8.4	22.4	12.0							2.9	3.0
14.....	8.8	8.9	22.2	11.0							2.6	2.0
15.....	8.5	8.7	21.0	10.2							2.8	4.1
16.....	8.7	8.2	19.7	10.4							1.2	4.2
17.....	8.5	8.0	18.1	10.3							3.0	4.3
18.....	7.8	6.8	16.8	9.9							4.6	4.3
19.....	7.1	10.1	15.7	9.4							5.0	4.3
20.....	7.1	11.2	14.8	8.7							4.5	3.7
21.....	6.7	10.4	14.8	8.1							3.8	1.0
22.....	8.0	9.7	16.2	7.5							3.2	9.3
23.....	8.6	9.1	18.5	7.1							3.1	8.2
24.....	8.1	8.8	21.0	6.8							3.7	7.5
25.....	7.4	8.1	22.9	6.5							2.8	6.7
26.....	7.2	7.5	23.0	6.0							2.7	5.7
27.....	7.1	7.0	21.6	5.8							2.5	6.0
28.....	6.7	7.1	19.5	5.8							2.7	6.1
29.....	6.8		17.4	5.7							2.8	5.9
30.....	7.1		15.6	5.5							2.8	5.3
31.....	7.7		14.3									4.9
<b>Means.</b>	<b>7.6</b>	<b>8.5</b>	<b>16.9</b>	<b>10.4</b>							<b>2.9</b>	<b>4.4</b>
<b>1904</b>												
1.....	4.5	4.4	5.3	12.6							4.1	2.0
2.....	4.3	4.0	5.2	13.5							4.0	1.9
3.....	4.1	3.7	5.1	15.0							3.6	2.0
4.....	4.5	3.5	5.8	14.5							3.5	2.5
5.....	4.1	3.4	6.1	12.9							3.5	1.9
6.....	4.1	3.4	6.1	11.3							3.4	3.5
7.....	3.9	3.2	6.6	11.2							3.1	3.4
8.....	4.0	3.1	10.3	11.7							3.1	3.3
9.....	4.4	4.0	13.8	12.6							3.2	3.3
10.....	3.7	3.9	15.0	15.0							3.4	3.1
11.....	2.9	3.8	14.3	17.0							3.2	Frozen.
12.....	4.4	4.3	13.0	17.2							2.9	
13.....	3.9	4.3										

### DESCRIPTION OF RIVER GAGES, ETC.

**NEW ENGLAND SYSTEM—HOUSATONIC RIVER, GAYLORDEVILLE, CONN.**

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1902												
1											5.5	4.2
2											5.3	4.1
3											5.0	4.3
4											4.9	4.6
5											4.9	4.6
6											4.7	4.3
7											4.7	4.3
8											4.6	4.3
9											4.6	3.4
10											4.4	3.5
11											4.3	3.7
12											4.5	3.7
13											4.4	4.0
14											4.5	4.0
15											4.5	4.3
16											4.3	4.3
17											4.3	8.0
18											4.2	7.3
19											4.3	6.8
20											4.3	6.6
21											4.3	6.8
22											4.2	8.4
23											4.2	8.6
24											4.1	7.5
25											4.0	7.4
26											4.2	7.0
27											4.6	6.7
28											4.6	5.9
29											4.4	5.6
30											4.3	5.9
31												5.6
Means.											4.5	5.5
1903												
1	5.4	5.8	9.3	6.3							4.7	4.1
2	5.3	5.7	7.8	6.0							4.6	4.3
3	5.8	5.9	7.4	6.1							4.5	4.4
4	6.0	6.0	6.7	6.0							4.5	4.4
5	6.0	7.4	6.6	6.0							4.5	4.3
6	5.9	6.6	6.1	6.1							4.7	4.3
7	5.6	6.7	6.0	5.8							4.5	4.3
8	5.5	6.1	6.1	6.4							4.5	4.2
9	5.3	5.8	7.4	7.0							4.3	4.4
10	5.0	5.5	7.7	7.2							4.3	4.6
11	4.9	5.5	7.5	6.6							4.3	4.5
12	4.9	6.6	7.5	6.8							4.4	4.2
13	4.7	6.7	7.3	6.5							4.2	4.7
14	4.7	6.5	7.2	6.0							4.3	5.5
15	4.6	6.2	6.9	6.0							4.3	5.2
16	4.9	5.9	6.8	5.8							4.2	4.9
17	4.9	5.5	6.3	5.9							4.7	4.8
18	4.6	4.9	6.0	5.6							6.0	4.6
19	4.2	10.1	6.1	5.5							6.0	4.5
20	Frozen.	10.1	5.8	5.3							6.0	4.5
21	5.2	13.1	5.6	5.1							5.3	8.2
22	5.8	10.7	6.4	5.0							5.1	6.8
23	5.5	10.9	6.9	5.0							4.9	6.8
24	5.0	6.7	8.8	5.0							5.1	6.0
25	5.0	5.4	8.2	5.0							5.0	5.8
26	4.9	4.8	7.8	4.8							4.8	5.6
27	4.9	5.1	7.6	4.8							4.4	4.7
28	4.9	6.2	6.8	4.6							4.5	4.6
29	5.4		6.6	4.8							4.3	4.8
30	5.9		6.1	4.7							4.3	4.9
31	6.1		6.5									5.0
Means.	5.2	6.9	7.0	5.7							4.7	5.0

## NEW ENGLAND SYSTEM—HOUSATONIC RIVER, GAYLORDSVILLE, CONN.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	4.9	6.9	6.3	6.0	.....	.....	.....	.....	.....	.....	4.3	4.3
2.....	4.8	6.3	6.1	6.7	.....	.....	.....	.....	.....	.....	4.4	4.3
3.....	4.0	6.7	5.1	6.7	.....	.....	.....	.....	.....	.....	4.4	4.2
4.....	4.0	6.7	7.8	6.7	.....	.....	.....	.....	.....	.....	4.5	4.1
5.....	4.2	6.4	6.2	6.5	.....	.....	.....	.....	.....	.....	4.5	4.0
6.....	4.1	6.3	5.5	6.2	.....	.....	.....	.....	.....	.....	4.5	3.9
7.....	4.1	6.1	5.2	6.2	.....	.....	.....	.....	.....	.....	4.3	4.0
8.....	4.0	8.5	9.4	6.1	.....	.....	.....	.....	.....	.....	4.2	4.1
9.....	4.0	8.0	7.7	6.2	.....	.....	.....	.....	.....	.....	4.3	4.0
10.....	4.5	8.3	6.8	6.5	.....	.....	.....	.....	.....	.....	4.2	3.9
11.....	4.6	8.5	6.8	6.5	.....	.....	.....	.....	.....	.....	4.3	3.8
12.....	4.6	6.8	6.0	6.4	.....	.....	.....	.....	.....	.....	4.2	4.1
13.....	4.7	6.1	5.7	6.3	.....	.....	.....	.....	.....	.....	4.2	4.1
14.....	6.3	7.2	5.5	6.1	.....	.....	.....	.....	.....	.....	4.5	4.0
15.....	6.6	6.8	5.3	5.9	.....	.....	.....	.....	.....	.....	4.4	3.9
16.....	6.0	6.0	5.1	5.9	.....	.....	.....	.....	.....	.....	4.6	4.2
17.....	6.6	6.2	5.0	5.6	.....	.....	.....	.....	.....	.....	4.5	4.2
18.....	6.1	6.3	5.0	5.6	.....	.....	.....	.....	.....	.....	4.3	4.2
19.....	5.8	6.2	4.9	5.5	.....	.....	.....	.....	.....	.....	4.3	4.1
20.....	6.3	5.9	5.4	5.5	.....	.....	.....	.....	.....	.....	4.3	4.1
21.....	6.3	6.5	5.3	5.5	.....	.....	.....	.....	.....	.....	4.3	4.2
22.....	6.6	7.0	5.6	5.4	.....	.....	.....	.....	.....	.....	4.3	4.3
23.....	6.6	Frozen.	5.7	5.3	.....	.....	.....	.....	.....	.....	4.6	4.1
24.....	9.1	8.0	6.3	5.2	.....	.....	.....	.....	.....	.....	4.6	4.2
25.....	9.5	8.0	6.5	5.1	.....	.....	.....	.....	.....	.....	4.3	4.3
26.....	9.0	7.0	6.8	5.2	.....	.....	.....	.....	.....	.....	4.4	4.3
27.....	9.3	4.0	7.6	5.2	.....	.....	.....	.....	.....	.....	4.2	4.1
28.....	8.0	5.0	7.5	6.0	.....	.....	.....	.....	.....	.....	4.1	4.7
29.....	8.0	4.2	7.1	6.4	.....	.....	.....	.....	.....	.....	4.0	4.5
30.....	7.9	.....	6.7	6.6	.....	.....	.....	.....	.....	.....	4.3	4.3
31.....	7.6	.....	6.2	.....	.....	.....	.....	.....	.....	.....	.....	4.2
Means.	6.1	6.6	6.2	6.0	.....	.....	.....	.....	.....	.....	4.3	4.1

## OHIO RIVER SYSTEM—RED BANK CREEK, BROOKVILLE, PA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	1.4	1.8	2.0	2.0	2.0	1.4	0.4	0.2	0.2	0.3	0.2	2.0
2.....	1.4	1.8	2.9	2.0	2.0	1.4	0.4	0.2	-0.2	0.3	0.2	2.0
3.....	1.4	1.8	2.8	2.0	2.0	1.4	0.4	0.2	-0.2	0.3	0.2	1.8
4.....	1.4	1.8	2.8	2.0	2.0	1.4	0.4	0.2	-0.2	0.1	0.2	1.8
5.....	1.4	1.8	2.8	2.0	2.0	1.4	0.4	0.2	-0.2	0.1	0.2	1.8
6.....	1.4	1.8	2.8	2.0	2.0	1.4	0.2	0.2	-0.2	0.1	0.2	2.0
7.....	1.4	1.8	3.5	2.0	2.0	1.4	0.2	-0.2	-0.2	0.1	0.2	1.7
8.....	1.4	2.0	3.2	2.0	2.0	1.4	0.2	-0.4	-0.2	0.8	0.2	1.5
9.....	1.4	2.4	3.0	2.0	2.0	1.4	0.6	-0.4	-0.2	0.8	0.4	1.5
10.....	1.4	2.2	2.7	2.0	2.0	1.2	0.6	-0.4	-0.4	0.6	0.3	1.5
11.....	1.4	2.0	2.6	2.0	2.0	1.1	0.6	-0.5	-0.4	0.6	0.2	1.4
12.....	1.4	2.0	2.6	2.2	2.3	1.0	2.7	-0.5	-0.4	0.6	0.2	1.4
13.....	1.4	2.1	2.3	2.2	2.5	0.7	1.7	-0.5	-0.4	0.6	0.2	1.4
14.....	1.4	2.5	2.0	2.1	2.4	0.7	1.0	-0.5	-0.4	0.9	0.2	1.4
15.....	1.4	2.2	2.0	2.0	2.4	0.7	0.6	-0.5	-0.4	0.9	0.4	1.4
16.....	1.7	2.0	2.0	2.0	2.2	0.4	0.2	-0.5	-0.4	0.7	0.2	1.4
17.....	1.9	2.0	2.0	2.0	2.2	0.4	0.5	-0.5	-0.4	0.7	0.2	1.4
18.....	1.8	2.0	2.0	2.0	2.2	0.4	0.3	-0.5	-0.4	0.7	0.3	1.4
19.....	1.8	2.0	2.2	2.0	2.2	0.4	0.2	-0.5	-0.4	0.7	0.3	1.4
20.....	1.8	2.0	2.7	2.0	2.0	0.4	0.2	-0.5	-0.4	0.4	0.9	1.4
21.....	2.7	2.0	2.7	2.0	2.0	0.4	0.2	-0.5	-0.4	0.4	1.2	1.4
22.....	2.5	2.4	2.5	2.0	2.0	0.4	0.2	-0.2	-0.4	0.4	1.3	1.4
23.....	2.0	2.6	2.5	2.0	1.8	0.4	0.2	-0.2	-0.4	0.4	1.3	1.4
24.....	2.0	2.2	2.3	2.0	1.8	0.4	0.2	-0.2	-0.4	1.4	1.0	1.4
25.....	2.0	2.0	2.0	2.0	1.8	0.4	0.5	-0.2	-0.4	1.2	1.8	1.4
26.....	1.8	2.0	2.0	2.0	1.5	0.4	1.1	-0.2	-0.4	1.0	6.2	1.4
27.....	1.8	2.0	2.0	2.0	1.4	0.4	0.9	-0.2	-0.4	1.0	4.2	1.4
28.....	1.8	2.0	2.0	2.0	1.4	0.4	0.5	0.3	-0.4	0.7	3.1	1.4
29.....	1.8	.....	2.0	2.0	1.4	0.4	0.2	0.3	-0.4	0.2	2.5	1.4
30.....	1.8	.....	2.0	2.0	1.4	0.4	0.2	0.2	0.3	0.2	2.3	1.4
31.....	1.8	.....	2.0	.....	1.4	.....	0.2	0.2	.....	0.2	.....	1.4
Means.	1.7	2.0	2.4	2.0	1.9	0.8	0.5	-0.3	-0.3	0.6	1.0	1.5

## OHIO RIVER SYSTEM—RED BANK CREEK, BROOKVILLE, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	1.4	1.6	1.6	3.0	1.0	2.0	0.2	-0.5	0.4	-0.2	-0.2	1.4
2.....	1.4	1.6	1.6	3.0	1.0	1.4	0.2	-0.5	0.6	-0.2	-0.2	1.4
3.....	1.4	1.6	1.6	3.0	1.0	1.4	0.2	-0.5	0.4	-0.2	-0.2	1.4
4.....	1.4	1.6	2.0	3.0	0.7	1.4	0.2	-0.5	0.4	-0.2	-0.2	1.4
5.....	1.4	1.6	2.0	3.2	0.5	1.2	0.2	-0.5	0.4	-0.2	-0.2	1.4
6.....	1.4	1.6	2.0	3.7	0.2	1.0	0.2	-0.5	0.4	-0.2	-0.2	1.4
7.....	1.4	1.6	2.0	3.8	0.1	1.0	0.2	-0.5	0.4	-0.2	-0.2	1.4
8.....	1.4	1.6	2.0	4.1	0.1	1.0	0.2	-0.5	0.4	-0.2	-0.2	1.4
9.....	1.4	1.6	2.2	3.3	0.1	1.0	0.2	-0.5	0.4	-0.2	-0.2	1.4
10.....	1.7	1.6	2.6	2.2	0.1	1.0	-0.1	-0.5	0.4	-0.2	-0.2	2.2
11.....	1.9	1.6	3.5	1.8	0.1	0.7	-0.1	-0.5	0.4	-0.2	-0.2	2.0
12.....	2.4	1.6	3.8	1.8	0.1	0.4	-0.2	-0.5	0.4	-0.2	-0.2	1.6
13.....	2.3	1.6	3.6	1.6	0.1	0.2	-0.2	-0.5	0.4	-0.2	-0.2	1.6
14.....	2.0	1.6	3.5	1.6	0.1	0.2	-0.4	-0.5	0.4	-0.2	-0.2	1.6
15.....	2.0	1.6	3.5	1.6	0.1	0.2	-0.5	-0.5	0.4	-0.2	-0.2	4.0
16.....	2.0	1.6	3.5	1.6	0.1	0.2	-0.5	0.7	0.4	-0.2	-0.2	3.2
17.....	2.0	1.6	3.2	1.6	0.1	0.2	-0.5	0.6	0.7	-0.2	-0.2	2.9
18.....	2.0	1.6	3.2	1.6	0.1	0.2	-0.5	1.4	0.7	-0.2	-0.2	2.5
19.....	2.0	1.6	3.2	2.2	-0.1	0.2	-0.5	1.7	0.6	-0.2	-0.2	2.2
20.....	2.0	1.6	3.0	5.7	-0.2	0.2	-0.5	1.8	0.6	-0.2	-0.2	2.0
21.....	2.0	1.6	3.0	4.2	-0.2	0.2	-0.5	2.1	0.6	-0.2	-0.2	2.0
22.....	2.0	1.6	3.0	3.8	-0.2	0.2	-0.5	1.6	0.6	-0.2	-0.2	2.0
23.....	2.0	1.6	3.0	2.6	-0.2	0.2	-0.5	1.6	0.6	-0.2	-0.2	1.7
24.....	2.0	1.6	3.0	2.2	-0.2	0.4	-0.5	1.7	0.2	-0.2	1.1	1.5
25.....	2.0	1.6	3.0	2.0	-0.2	0.4	-0.5	1.5	0.1	-0.2	2.0	1.4
26.....	2.0	1.6	3.0	2.0	0.1	0.4	-0.5	1.3	-0.2	-0.2	1.8	1.4
27.....	1.7	1.6	3.4	2.0	0.8	0.3	-0.5	1.3	-0.2	-0.2	1.7	1.4
28.....	1.6	1.6	3.4	2.0	1.9	0.2	-0.5	1.0	-0.2	-0.2	1.7	1.4
29.....	1.6		3.2	2.0	2.2	0.2	-0.5	0.6	-0.2	-0.2	1.5	1.2
30.....	1.6		3.0	1.2	2.0	0.2	-0.5	0.4	-0.2	-0.2	1.4	1.2
31.....	1.6		3.0		2.0		-0.5	0.4		-0.2		1.2
<b>Means.</b>	<b>1.8</b>	<b>1.6</b>	<b>2.8</b>	<b>2.6</b>	<b>0.4</b>	<b>0.6</b>	<b>-0.2</b>	<b>0.4</b>	<b>0.3</b>	<b>-0.2</b>	<b>0.2</b>	<b>1.8</b>
<b>1902</b>												
1.....	1.2	1.0	6.7	0.2	0.5	0.2	2.8	1.2	0.2	-0.5	-0.5	-0.1
2.....	1.2	1.0	4.8	0.2	0.5	0.2	1.8	1.0	0.2	-0.5	-0.5	0.2
3.....	1.2	1.0	3.6	0.2	1.4	0.2	1.6	1.0	0.2	-0.5	-0.5	0.9
4.....	1.2	1.0	2.5	0.2	1.2	0.2	4.0	1.0	0.2	-0.5	-0.5	1.3
5.....	1.2	1.0	1.6	0.2	1.2	0.2	2.5	1.0	0.2	-0.5	-0.5	1.5
6.....	1.2	1.0	1.4	0.2	1.0	0.2	1.9	1.0	0.2	-0.5	-0.5	1.5
7.....	1.2	1.0	1.3	0.2	1.0	0.2	1.5	1.0	0.2	-0.5	-0.5	1.5
8.....	1.0	1.0	1.3	2.8	1.0	0.2	1.5	1.0	0.2	-0.5	-0.5	1.5
9.....	1.0	1.0	1.0	4.3	1.0	0.2	1.4	1.0	0.2	-0.5	-0.5	1.5
10.....	1.0	1.0	1.1	3.2	1.0	0.2	3.8	1.0	0.2	-0.5	-0.5	1.5
11.....	1.0	1.0	1.4	2.4	0.8	0.2	2.9	1.0	0.2	-0.5	-0.5	1.5
12.....	1.0	1.0	1.3	1.7	0.8	0.2	2.2	1.0	0.2	-0.5	-0.5	2.1
13.....	1.0	1.0	3.0	1.5	0.8	0.2	1.8	1.0	0.2	-0.5	-0.5	2.2
14.....	1.0	1.0	2.7	1.1	0.8	0.6	1.6	0.8	0.2	-0.5	-0.5	1.7
15.....	1.0	1.0	2.2	1.0	0.8	0.4	1.6	0.7	0.2	-0.5	-0.5	1.6
16.....	1.0	1.0	1.8	0.8	0.8	0.4	1.6	0.5	0.2	-0.5	-0.5	1.6
17.....	1.0	1.0	2.4	0.8	0.8	0.4	1.6	0.5	-0.3	-0.5	-0.5	2.0
18.....	1.0	1.0	2.0	0.7	0.8	0.3	1.6	0.2	-0.4	-0.5	-0.5	1.9
19.....	1.0	1.0	1.8	0.7	0.8	0.5	1.6	0.2	-0.4	-0.5	-0.5	1.8
20.....	1.0	1.0	1.4	0.7	1.1	1.1	1.6	0.2	-0.5	-0.5	-0.5	1.8
21.....	1.0	1.0	1.2	0.7	1.0	1.5	2.0	0.2	-0.5	-0.5	-0.5	1.8
22.....	1.0	1.0	1.0	0.7	1.0	1.5	1.7	0.2	-0.5	-0.5	-0.5	2.7
23.....	1.0	1.0	1.0	0.7	1.0	1.2	1.6	0.2	-0.5	-0.5	-0.5	2.5
24.....	1.0	1.0	0.9	0.7	1.0	1.2	1.4	0.2	-0.5	-0.5	-0.5	2.5
25.....	1.0	1.0	0.7	0.5	1.0	1.2	2.0	0.2	-0.5	-0.5	-0.5	2.2
26.....	1.0	1.0	0.3	0.5	1.0	1.8	1.8	0.2	-0.5	-0.5	-0.2	2.0
27.....	1.0	1.0	0.2	0.5	1.0	1.6	1.7	0.2	-0.5	-0.5	-0.2	2.0
28.....	1.0	4.2	0.2	0.5	1.0	1.5	1.6	0.2	-0.5	-0.5	-0.1	2.0
29.....	1.0		0.2	0.5	1.0	1.7	1.4	0.2	-0.5	-0.5	-0.1	2.0
30.....	1.0		0.2	0.5	0.6	3.6	1.8	0.2	-0.5	-0.5	-0.1	1.8
31.....	1.0		0.2		0.4		1.6	0.2		-0.5		1.8
<b>Means.</b>	<b>1.0</b>	<b>1.1</b>	<b>1.7</b>	<b>1.0</b>	<b>0.9</b>	<b>0.8</b>	<b>1.9</b>	<b>0.6</b>	<b>-0.1</b>	<b>-0.5</b>	<b>-0.4</b>	<b>1.7</b>



## OHIO RIVER SYSTEM—RED BANK CREEK, BROOKVILLE, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	1.4	2.6	3.8	0.7	0.4	-0.2	1.0	0.4	0.5	0.2	0.4	0.2
2.....	1.4	2.0	3.2	0.5	0.4	-0.2	1.0	0.4	0.5	0.2	0.4	0.2
3.....	1.4	2.0	2.2	0.5	0.4	-0.2	1.0	0.4	0.5	0.2	0.4	0.2
4.....	1.7	4.8	1.5	0.5	0.4	-0.2	1.2	0.4	0.5	0.2	0.4	0.2
5.....	1.6	4.5	1.4	0.5	0.4	-0.2	1.3	0.4	0.5	0.2	0.4	0.2
6.....	1.6	3.4	1.4	0.5	0.4	-0.2	2.0	0.4	0.5	0.2	0.4	0.2
7.....	1.4	2.0	1.4	0.5	0.4	-0.2	1.8	0.2	0.3	0.2	0.4	0.2
8.....	1.4	1.6	1.6	0.5	0.4	-0.2	1.4	0.2	0.3	1.1	0.4	0.2
9.....	1.2	1.4	2.8	0.5	0.4	-0.2	1.2	0.2	0.4	1.7	0.2	0.2
10.....	1.2	1.2	2.4	0.5	0.4	-0.2	1.0	0.2	0.3	1.4	0.2	0.2
11.....	1.0	1.2	3.0	0.5	0.2	-0.4	1.0	0.2	0.3	1.0	0.2	0.2
12.....	1.0	1.8	2.2	1.0	0.2	-0.4	1.0	0.2	0.2	0.8	0.2	0.2
13.....	1.0	2.0	1.8	1.1	0.2	-0.4	1.0	0.2	0.2	0.7	0.2	0.2
14.....	1.0	1.8	1.6	1.8	0.2	1.2	1.0	0.2	0.2	0.7	0.2	0.2
15.....	1.0	1.8	1.4	2.2	0.1	1.0	0.6	0.2	0.2	0.7	0.2	0.2
16.....	1.0	2.0	1.3	2.0	0.1	1.0	0.4	0.2	0.2	0.7	0.2	0.2
17.....	1.0	2.0	1.2	1.4	0.1	0.7	0.2	-0.2	0.2	0.7	6.5	0.2
18.....	1.0	1.7	1.2	1.2	0.1	0.7	0.5	-0.3	0.9	0.9	3.5	0.2
19.....	1.0	1.6	1.2	1.0	0.1	0.7	0.7	-0.3	0.6	0.8	2.0	0.2
20.....	1.0	1.6	1.0	0.7	-0.1	0.7	0.7	-0.3	0.5	0.7	1.2	0.2
21.....	1.0	1.6	1.0	0.6	-0.1	0.7	2.0	-0.3	0.4	0.7	0.8	0.2
22.....	1.0	1.6	1.0	0.6	-0.1	0.7	1.4	-0.3	0.4	0.7	0.6	0.2
23.....	1.0	1.6	1.2	0.6	-0.1	1.3	1.0	-0.3	0.4	0.7	0.4	0.2
24.....	1.0	1.6	2.2	0.6	-0.1	1.6	0.7	-0.3	0.4	0.6	0.4	0.2
25.....	1.0	1.6	1.8	0.6	-0.1	1.4	0.6	-0.3	0.4	0.6	0.2	0.2
26.....	1.0	1.6	1.3	0.6	-0.2	1.0	0.4	-0.3	0.4	0.5	0.2	0.2
27.....	1.0	1.6	1.1	0.4	-0.2	1.0	0.4	-0.3	0.4	0.5	0.2	0.2
28.....	1.0	3.6	1.0	0.4	-0.2	1.0	0.4	0.7	0.4	0.4	0.2	0.2
29.....	1.0	.....	0.7	0.4	-0.2	1.2	0.4	1.1	0.2	0.4	0.2	0.2
30.....	5.5	.....	0.5	0.4	-0.2	1.1	0.4	0.9	0.2	0.4	0.2	0.2
31.....	3.8	.....	0.8	.....	-0.2	.....	0.4	0.9	.....	0.4	.....	0.2
Means.	1.4	2.1	1.6	0.8	0.1	0.5	0.9	0.2	0.4	0.6	0.7	0.2
<b>1904</b>												
1.....	0.2	1.0	3.8	10.0	1.4	1.0	1.0	0.5	0.4	-0.4	-0.4	-0.4
2.....	0.2	1.0	2.6	7.0	1.2	1.0	1.0	0.5	0.4	-0.4	-0.4	-0.4
3.....	0.2	1.0	6.6	5.4	1.0	1.0	1.0	0.5	0.4	-0.4	-0.4	-0.4
4.....	0.2	1.0	5.0	3.5	1.0	1.0	1.0	0.4	0.4	-0.4	-0.4	-0.4
5.....	0.2	1.0	3.0	3.0	1.0	1.0	1.0	0.4	0.4	-0.4	-0.4	-0.4
6.....	0.2	1.0	2.5	2.5	1.0	0.8	1.5	0.4	0.4	-0.4	-0.4	-0.4
7.....	0.2	1.0	10.0	2.0	0.8	0.8	2.0	0.3	0.4	-0.4	-0.4	-0.4
8.....	0.2	3.8	6.0	2.0	0.8	0.8	2.0	0.3	0.4	-0.4	-0.4	-0.4
9.....	0.2	2.4	4.0	2.0	0.8	0.8	2.0	0.3	0.4	-0.4	-0.4	-0.4
10.....	0.2	2.0	3.0	2.0	0.8	0.8	4.5	0.4	0.4	-0.4	-0.4	-0.4
11.....	0.2	1.8	2.5	2.0	0.8	0.6	3.0	0.4	0.4	-0.4	-0.4	-0.4
12.....	0.2	1.5	2.0	2.0	0.8	0.6	2.5	0.4	0.4	-0.4	-6.4	-0.4
13.....	0.2	1.4	1.8	2.0	0.6	0.6	2.0	0.4	0.4	-0.4	-0.4	-0.4
14.....	0.2	1.4	1.8	1.8	0.6	0.6	1.8	0.4	0.4	-0.4	-0.4	-0.4
15.....	0.2	1.2	1.6	1.6	0.6	1.0	1.5	0.4	0.2	-0.4	-0.4	-0.4
16.....	0.2	1.2	1.6	1.6	0.6	1.4	1.0	0.4	0.2	-0.4	-0.4	-0.4
17.....	0.2	1.2	1.6	1.6	0.6	1.0	1.0	0.4	0.2	-0.4	-0.4	-0.4
18.....	0.2	1.2	1.6	1.4	0.6	1.0	0.8	0.4	0.2	-0.4	-0.4	-0.4
19.....	0.2	1.1	1.6	1.4	2.5	1.0	0.8	0.4	0.2	-0.4	-0.4	-0.4
20.....	0.2	1.1	1.6	1.4	1.8	1.0	0.6	0.4	0.2	-0.4	-0.4	-0.4
21.....	0.4	1.0	1.4	1.4	1.0	1.0	0.6	0.4	0.2	-0.4	-0.4	-0.4
22.....	5.8	1.0	1.4	1.2	0.8	1.6	0.6	0.4	0.2	-0.4	-0.4	-0.4
23.....	6.0	1.0	2.0	1.0	0.8	1.4	0.6	0.4	0.2	-0.4	-0.4	-0.4
24.....	4.4	1.0	2.0	1.0	0.8	1.0	0.6	0.4	-0.4	-0.4	-0.4	-0.2
25.....	2.8	1.0	1.6	1.0	0.8	1.0	0.6	0.4	-0.4	-0.4	-0.4	-0.2
26.....	2.0	1.0	2.0	1.0	0.8	1.0	0.6	0.6	-0.4	-0.4	-0.4	-0.2
27.....	1.4	1.0	2.0	1.0	0.8	1.0	0.6	0.6	-0.4	-0.4	-0.4	-0.1
28.....	1.2	1.0	2.0	1.2	0.6	1.0	0.6	0.6	-0.4	-0.4	-0.4	1.7
29.....	1.2	1.0	2.0	1.6	0.6	1.0	1.0	0.6	-0.4	-0.4	-0.4	1.5
30.....	1.2	.....	1.6	1.6	0.6	1.0	0.8	0.4	-0.4	-0.4	-0.4	1.4
31.....	1.0	.....	1.6	.....	1.0	.....	0.6	0.4	.....	-0.4	.....	1.4
Means.	1.0	1.3	2.7	2.3	0.9	1.0	1.3	0.4	0.2	-0.4	-0.4	-0.1

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—CLARION RIVER, CLARION, PA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1901												
1											0.4	2.9
2											0.2	2.5
3											0.1	2.5
4											0.3	2.8
5											0.4	2.4
6											0.3	2.0
7											0.6	1.8
8											0.2	2.0
9											0.0	1.9
10											-0.2	3.4
11											-0.1	5.4
12											0.2	4.1
13											2.0	3.6
14											1.6	3.4
15											2.5	10.2
16											1.9	7.5
17											1.8	5.6
18											1.7	4.5
19											1.7	3.5
20											1.6	3.0
21											0.4	2.7
22											0.4	2.4
23											0.4	2.5
24											2.9	2.8
25											7.2	2.5
26											5.4	2.4
27											4.0	2.3
28											3.6	2.1
29											3.1	2.4
30											2.8	2.5
31												2.5
Means											1.6	3.3
1902												
1	2.4	4.0	14.0	3.3	1.5	1.1	5.6	3.6	0.4	0.4	0.5	1.4
2	1.8	3.9	10.6	3.2	1.6	0.8	4.6	2.9	0.3	2.1	0.6	0.4
3	1.8	3.6	8.0	2.9	2.4	0.9	4.0	2.7	0.1	1.6	0.2	1.4
4	1.7	3.4	6.0	2.8	2.9	0.8	9.8	2.5	0.3	1.3	0.2	1.8
5	1.6	3.4	4.9	2.7	2.6	1.2	6.2	2.3	0.0	0.9	0.2	2.2
6	1.6	3.3	4.1	3.2	3.5	1.4	5.0	2.0	0.0	1.0	0.4	2.0
7	1.6	3.3	3.8	3.3	2.8	1.1	4.2	1.9	0.1	1.2	0.3	1.6
8	1.5	3.2	3.3	4.1	3.1	1.5	3.7	1.7	0.1	1.3	0.3	1.8
9	1.5	3.1	3.5	8.3	2.8	0.9	3.6	1.8	0.1	1.1	0.2	2.0
10	1.5	3.0	3.8	6.7	2.5	0.9	6.0	1.9	0.6	1.0	0.3	2.6
11	1.6	3.0	3.9	5.5	2.3	1.0	6.9	1.7	0.3	0.9	0.2	2.8
12	1.8	3.0	4.1	4.7	2.1	0.9	4.9	2.0	0.4	0.8	0.1	2.8
13	1.9	2.9	5.4	4.1	2.0	1.1	4.0	1.4	0.4	1.2	0.1	3.6
14	2.0	2.8	6.0	3.7	1.9	1.4	3.3	1.3	0.0	1.6	0.2	2.6
15	2.0	2.8	5.0	3.2	2.1	1.7	2.8	1.1	0.0	1.8	0.1	2.5
16	1.9	2.7	4.5	3.0	1.6	1.1	2.6	0.8	-0.1	2.0	0.1	2.5
17	2.0	2.7	5.7	3.0	1.3	2.6	2.3	0.8	-0.2	1.4	0.1	4.7
18	3.2	2.7	5.4	2.6	1.9	1.6	2.9	0.5	-0.1	1.3	0.3	4.3
19	3.2	2.6	4.1	2.4	1.1	1.4	2.7	0.7	-0.1	1.0	0.9	3.5
20	2.9	2.6	3.9	2.6	1.3	2.0	3.0	0.6	-0.2	1.1	0.8	3.1
21	2.9	2.6	3.4	2.2	1.4	1.8	4.5	0.5	-0.2	0.9	0.9	3.1
22	3.0	2.5	3.1	2.1	1.8	1.7	4.6	0.5	-0.1	0.8	0.8	6.4
23	3.1	2.5	2.9	2.0	2.2	1.6	5.4	0.4	-0.1	0.6	0.7	5.9
24	3.2	2.5	2.7	1.9	1.3	1.3	4.1	0.4	-0.1	0.6	0.6	4.7
25	4.0	2.2	2.5	1.6	1.3	1.2	4.3	0.4	0.2	0.6	0.6	4.0
26	3.7	2.6	2.4	1.5	1.3	1.3	5.4	0.3	1.0	0.4	0.7	3.4
27	3.8	2.2	2.2	1.4	2.1	2.6	4.0	0.3	1.6	0.6	1.2	2.9
28	4.6	2.0	1.8	1.4	1.6	1.9	3.7	0.1	0.8	0.4	2.0	2.8
29	4.9		2.4	1.9	1.4	1.6	3.3	0.2	0.6	0.5	1.9	2.4
30	4.7		3.5	1.4	1.2	7.8	3.4	0.2	0.4	0.6	1.6	2.0
31	4.6		3.3		1.0		4.3	0.7		0.6		3.3
Means	2.6	3.1	4.5	3.1	1.9	1.6	4.4	1.2	0.2	1.0	0.6	2.9

## OHIO RIVER SYSTEM—CLARION RIVER, CLARION, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	3.0	5.7	11.3	3.8	1.4	0.6	2.0	2.1	2.4	1.0	0.7	1.8
2.....	2.0	4.7	7.0	3.0	1.3	0.6	1.8	1.6	3.2	0.2	0.5	3.0
3.....	3.9	7.5	5.5	2.9	1.4	0.5	1.5	1.3	2.4	0.5	1.0	1.0
4.....	3.8	8.5	4.5	3.3	1.0	0.4	1.3	1.2	2.0	0.8	0.7	2.0
5.....	3.8	11.0	4.0	3.8	1.9	0.2	1.2	2.0	1.8	1.0	0.7	1.9
6.....	3.3	7.3	5.0	3.1	1.4	0.2	1.1	2.3	1.5	1.9	1.3	1.9
7.....	2.8	5.5	4.8	3.0	1.2	0.3	2.8	1.7	1.3	1.9	0.9	1.6
8.....	2.4	4.5	5.4	3.0	1.0	0.2	2.1	1.5	1.5	1.8	0.9	2.0
9.....	2.3	4.0	10.0	2.8	1.0	0.3	1.8	1.2	1.5	5.4	0.8	2.2
10.....	4.6	3.5	7.3	2.8	0.8	1.3	1.6	1.3	1.4	3.4	0.2	2.4
11.....	4.6	3.0	8.4	2.7	0.7	0.9	1.4	1.0	1.9	2.8	0.1	2.0
12.....	4.5	3.7	8.5	2.7	0.7	0.8	1.8	0.7	2.5	2.6	0.0	1.0
13.....	3.9	4.4	6.3	3.8	0.6	0.8	1.5	0.6	2.2	2.2	0.8	1.8
14.....	3.9	4.1	5.3	3.5	0.8	1.0	1.1	0.5	1.5	1.9	0.4	1.9
15.....	3.8	3.8	4.5	5.3	0.7	1.8	0.8	0.3	1.4	1.8	0.1	2.4
16.....	4.2	3.8	4.1	5.3	0.6	2.1	0.7	0.5	1.0	1.6	0.3	2.6
17.....	4.2	3.5	3.8	4.7	0.6	1.4	0.6	0.5	1.0	1.6	7.3	2.7
18.....	4.1	3.2	3.5	4.0	0.5	1.0	1.3	0.9	4.0	1.8	8.5	2.8
19.....	3.6	2.6	3.2	3.6	0.5	1.0	5.4	0.6	2.6	2.6	6.5	2.7
20.....	3.6	7.6	3.0	3.2	0.4	1.0	3.4	0.7	2.1	1.9	4.4	2.8
21.....	3.3	7.5	3.1	3.0	0.4	1.7	3.2	0.4	1.9	2.2	3.5	3.1
22.....	3.0	7.2	3.8	2.8	0.2	1.4	3.0	1.0	1.7	2.0	2.9	3.0
23.....	3.0	6.8	3.6	2.7	0.2	3.5	2.8	0.4	1.4	1.4	2.7	3.3
24.....	2.6	7.4	6.9	2.5	0.5	5.0	2.8	0.9	1.3	1.1	2.6	2.9
25.....	2.3	7.3	5.2	2.0	0.8	3.4	2.3	0.5	1.1	1.0	2.7	3.1
26.....	2.7	7.0	4.5	2.0	0.6	3.0	2.0	1.0	1.3	1.0	2.6	3.0
27.....	2.6	6.7	3.9	1.9	0.5	2.6	1.8	0.9	1.0	1.2	2.6	2.9
28.....	2.6	9.5	3.5	1.5	1.0	2.0	1.6	1.5	0.5	1.5	2.2	2.6
29.....	4.3	.....	3.0	1.5	0.8	2.0	1.7	1.6	0.7	0.8	2.0	2.3
30.....	6.5	.....	2.9	1.4	0.8	2.1	1.5	2.9	0.6	0.9	2.0	2.1
31.....	7.7	.....	2.9	.....	0.6	.....	2.6	2.7	.....	0.8	.....	2.1
<b>Means.</b>	<b>3.6</b>	<b>5.8</b>	<b>5.1</b>	<b>3.1</b>	<b>0.8</b>	<b>1.4</b>	<b>2.0</b>	<b>1.2</b>	<b>1.7</b>	<b>1.7</b>	<b>2.1</b>	<b>2.4</b>
<b>1904</b>												
1.....	2.0	1.9	8.0	8.7	4.2	3.5	2.0	1.8	1.0	0.8	0.9	-0.3
2.....	2.8	1.8	6.0	11.9	4.0	3.0	3.3	1.7	0.7	1.4	0.7	-0.4
3.....	2.6	2.0	8.2	7.0	3.5	2.6	1.7	1.5	0.6	1.2	0.5	-0.4
4.....	2.4	1.9	11.5	5.6	3.0	2.6	1.5	1.3	1.0	1.5	0.3	-0.2
5.....	2.0	1.8	6.8	4.8	2.9	2.4	1.4	1.3	0.7	1.2	0.3	-0.3
6.....	1.9	1.6	5.2	4.0	2.8	2.6	2.6	0.5	0.6	0.8	0.6	-0.3
7.....	1.8	3.0	8.7	3.8	2.5	2.6	4.1	0.4	0.5	0.7	0.4	-0.4
8.....	1.8	9.8	12.0	3.6	2.4	2.2	3.3	0.3	0.5	0.6	0.3	-0.4
9.....	1.7	6.0	7.0	3.2	2.4	2.3	3.3	0.1	0.4	0.7	0.2	-0.4
10.....	1.6	4.5	6.6	4.8	2.2	2.6	7.9	0.1	0.3	.....	0.1	-0.4
11.....	1.6	3.0	4.5	4.6	2.0	2.8	7.1	0.3	0.3	0.6	0.7	-0.4
12.....	1.4	2.9	4.0	4.0	1.9	2.2	5.0	0.5	0.4	0.5	0.4	Frozen.
13.....	1.4	2.9	3.6	3.6	1.6	1.9	5.0	0.3	0.3	1.5	0.2	.....
14.....	1.5	2.8	3.2	3.5	1.5	2.1	4.1	0.5	0.2	1.8	0.1	.....
15.....	1.4	2.6	3.0	3.5	2.6	2.6	3.4	0.3	0.2	1.7	0.0	.....
16.....	1.4	2.4	2.8	3.0	2.8	2.8	3.0	0.2	0.3	1.6	-0.1	.....
17.....	1.3	2.0	2.6	3.5	2.5	2.5	2.8	0.6	0.2	1.2	-0.2	.....
18.....	1.2	2.0	2.0	3.0	2.5	2.0	2.5	0.4	0.2	1.1	-0.3	.....
19.....	1.0	3.0	2.6	2.8	7.0	1.8	2.4	0.2	0.1	0.5	-0.3	.....
20.....	1.0	2.9	3.0	2.7	6.2	1.7	2.4	0.3	0.0	0.4	-0.4	.....
21.....	1.5	2.8	3.9	2.6	4.8	1.6	1.5	1.0	-0.1	0.3	-0.4	.....
22.....	6.1	3.5	3.4	2.4	4.0	2.8	1.4	2.0	-0.2	0.6	-0.4	.....
23.....	12.5	3.5	4.6	2.2	3.5	2.5	1.3	2.0	-0.3	2.7	0.0	.....
24.....	8.5	3.4	6.0	2.0	4.0	2.4	1.3	2.8	-0.3	2.4	-0.2	2.4
25.....	6.0	3.3	5.5	2.3	3.9	2.3	1.2	2.0	-0.2	2.2	-0.3	2.6
26.....	5.0	3.0	7.5	3.8	3.3	2.0	1.2	2.0	-0.2	2.0	-0.4	2.0
27.....	4.0	3.0	7.5	3.5	3.6	1.8	1.1	1.8	1.7	1.5	-0.4	2.6
28.....	3.5	2.9	5.8	4.3	3.8	1.8	1.1	1.6	1.5	1.4	-0.2	6.9
29.....	3.0	3.0	5.8	4.8	3.0	1.9	1.5	1.5	1.0	1.3	0.0	4.7
30.....	2.5	.....	4.0	4.9	2.8	1.7	2.1	1.4	0.9	1.1	-0.2	3.3
31.....	2.0	.....	3.6	.....	2.8	.....	1.9	1.0	.....	1.0	.....	3.0
<b>Means.</b>	<b>2.9</b>	<b>3.1</b>	<b>5.4</b>	<b>4.1</b>	<b>3.2</b>	<b>2.3</b>	<b>2.7</b>	<b>1.0</b>	<b>0.4</b>	<b>1.2</b>	<b>0.1</b>	<b>1.2</b>

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—CONEMAUGH RIVER, JOHNSTOWN, PA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	2.1	1.6	2.2	2.6	1.7	2.4	2.2	2.0	1.8	0.4	0.8	2.8
2.....	2.0	Frozen.	2.8	2.5	1.7	2.8	2.1	2.0	1.6	0.3	0.8	2.6
3.....	2.0	.....	2.5	2.5	1.6	2.6	2.1	1.8	1.6	0.3	0.7	2.6
4.....	1.9	.....	2.4	2.4	1.6	2.2	2.2	1.7	1.6	0.3	0.7	2.5
5.....	1.9	2.4	3.2	2.3	1.7	2.0	2.8	1.7	1.5	0.3	0.7	5.2
6.....	1.9	2.2	3.6	2.3	1.6	1.9	2.5	1.6	1.5	0.4	0.8	4.2
7.....	2.0	2.2	4.2	2.2	1.6	1.8	2.6	1.5	1.4	0.4	0.7	3.5
8.....	2.4	4.8	3.8	2.3	1.5	1.8	3.0	1.4	1.4	1.1	0.8	2.9
9.....	2.2	5.2	3.4	2.3	1.6	1.7	2.9	1.4	1.4	1.2	0.9	2.6
10.....	2.2	4.0	3.2	2.2	1.6	1.6	2.8	1.4	1.2	1.0	1.2	2.4
11.....	2.5	3.5	3.2	2.0	1.5	1.6	2.6	1.2	1.0	1.0	1.2	2.3
12.....	2.6	3.1	3.1	2.1	1.8	1.5	2.6	1.1	0.9	0.9	1.1	2.2
13.....	2.8	3.4	3.0	2.0	1.9	1.5	2.4	1.0	0.9	0.8	1.0	2.1
14.....	2.5	3.8	3.0	2.0	1.8	2.4	2.4	1.0	0.8	0.8	1.0	2.0
15.....	2.4	3.4	3.1	1.9	1.7	2.9	2.1	1.0	0.7	0.9	1.1	2.0
16.....	2.4	3.1	3.0	2.0	1.7	2.4	2.0	1.2	0.5	0.9	1.0	1.9
17.....	2.8	2.9	3.0	2.0	1.6	2.4	1.9	1.1	0.5	0.8	0.9	1.8
18.....	2.8	2.8	2.8	2.1	1.6	2.2	2.0	1.0	0.5	0.8	0.9	1.8
19.....	3.1	2.6	3.1	2.2	1.8	2.6	2.2	1.0	0.6	0.8	1.2	1.8
20.....	3.4	2.5	3.8	2.2	1.8	2.5	2.2	0.9	0.5	0.7	1.4	1.9
21.....	6.6	2.4	3.6	2.1	1.8	2.3	2.1	3.5	0.5	0.7	2.2	1.9
22.....	4.2	2.6	3.3	2.1	1.7	2.2	2.0	2.0	0.4	0.6	2.6	1.7
23.....	3.4	2.6	3.1	2.2	1.7	2.1	1.8	1.8	0.4	0.6	2.2	1.7
24.....	3.2	2.5	3.0	2.2	1.6	2.0	1.8	1.6	0.4	1.2	2.1	1.8
25.....	2.8	2.4	2.8	2.1	1.6	2.4	1.8	3.2	0.4	1.2	2.8	1.8
26.....	2.6	2.2	2.8	2.0	1.6	2.1	2.8	2.4	0.5	1.0	10.0	1.7
27.....	2.4	2.1	3.0	1.9	1.5	2.0	2.3	2.1	0.4	0.9	5.8	1.7
28.....	2.1	2.1	2.9	1.8	1.5	2.0	2.0	2.0	0.5	0.9	4.3	1.6
29.....	2.2	.....	2.9	1.8	1.4	2.2	1.9	1.9	0.4	0.9	3.7	1.6
30.....	2.0	.....	2.9	1.7	1.4	2.4	1.9	1.9	0.4	0.8	3.2	1.4
31.....	1.8	.....	2.8	.....	1.5	.....	2.2	1.8	.....	0.8	.....	1.5
<b>Means.</b>	<b>2.6</b>	<b>2.9</b>	<b>3.1</b>	<b>2.1</b>	<b>1.6</b>	<b>2.2</b>	<b>2.3</b>	<b>1.7</b>	<b>0.9</b>	<b>0.8</b>	<b>1.9</b>	<b>2.2</b>
<b>1901</b>												
1.....	1.5	1.8	1.3	3.0	2.6	4.4	2.4	1.4	2.2	1.5	0.5	1.6
2.....	1.4	1.6	1.7	3.0	2.5	3.8	2.5	1.3	2.8	1.5	0.5	1.6
3.....	1.4	1.6	3.3	3.4	2.8	3.4	2.3	1.3	2.5	1.6	0.5	2.0
4.....	1.3	1.6	5.8	3.6	2.6	2.9	2.2	1.2	2.2	1.6	0.5	3.4
5.....	1.3	1.5	4.0	3.5	2.4	2.8	2.2	1.2	2.1	1.6	0.5	2.8
6.....	1.2	1.5	3.1	5.5	2.2	2.6	2.0	1.2	2.1	1.4	0.4	2.6
7.....	1.2	1.5	2.8	9.6	2.2	5.5	2.0	1.4	2.0	1.4	0.4	2.6
8.....	1.2	1.4	2.6	6.3	2.0	4.0	1.8	1.3	2.0	1.4	0.4	2.5
9.....	1.3	1.4	4.7	4.0	2.0	3.4	1.8	1.3	1.9	1.3	0.4	2.5
10.....	1.5	1.4	7.3	3.6	2.0	3.2	1.7	1.2	1.8	1.3	0.4	3.5
11.....	3.8	1.3	8.7	3.4	1.9	3.0	1.6	1.2	2.6	1.1	0.4	3.0
12.....	3.7	1.4	5.5	3.4	2.2	2.9	1.6	1.2	2.4	0.9	0.4	2.8
13.....	3.4	1.4	3.8	3.2	2.2	2.9	1.6	1.1	2.3	1.0	0.6	2.6
14.....	3.0	1.3	5.5	3.0	2.1	3.1	1.5	1.1	2.2	1.0	0.6	2.7
15.....	3.0	1.2	4.0	3.2	1.9	3.0	1.5	1.1	2.1	0.9	0.6	10.8
16.....	3.1	1.2	3.6	3.1	1.8	3.0	1.6	1.2	2.3	0.8	0.6	5.0
17.....	3.1	1.4	3.3	3.0	1.8	3.1	1.8	1.2	2.4	0.8	0.5	4.3
18.....	3.0	1.4	2.9	2.8	1.8	2.9	1.8	1.3	2.3	0.8	0.5	3.9
19.....	2.8	1.4	2.8	2.8	1.9	2.9	2.0	1.5	2.1	0.8	0.5	3.7
20.....	2.5	1.5	2.8	4.8	2.2	2.8	1.8	1.6	2.0	0.7	0.5	3.0
21.....	2.5	1.5	5.0	6.3	2.1	2.8	1.7	1.4	2.0	0.7	0.5	2.9
22.....	2.8	1.4	3.8	5.8	2.0	2.8	1.6	1.4	1.8	0.7	0.5	2.6
23.....	2.7	1.4	3.2	5.0	4.4	2.6	1.8	1.3	1.7	0.6	0.5	2.6
24.....	2.6	1.3	3.0	4.0	3.2	2.5	1.7	2.8	1.7	0.6	0.8	2.7
25.....	2.5	1.3	2.8	3.4	3.0	2.4	1.6	2.4	1.6	0.6	2.4	2.9
26.....	2.3	1.4	2.6	3.2	4.2	2.5	1.6	2.2	1.6	0.6	2.0	2.8
27.....	2.2	1.4	6.0	3.0	8.0	2.5	1.6	2.0	1.5	0.5	1.9	2.8
28.....	2.2	1.4	4.8	2.8	7.0	2.4	1.5	2.0	1.5	0.5	1.8	3.1
29.....	2.0	.....	3.9	2.8	5.5	2.6	1.4	1.9	1.6	0.5	1.6	4.2
30.....	1.9	.....	3.5	2.6	5.9	2.5	1.4	1.8	1.6	0.5	1.6	4.8
31.....	1.8	.....	3.2	.....	4.8	.....	1.4	1.8	.....	0.5	.....	3.8
<b>Means.</b>	<b>2.3</b>	<b>1.4</b>	<b>3.9</b>	<b>3.9</b>	<b>3.0</b>	<b>3.0</b>	<b>1.8</b>	<b>1.5</b>	<b>2.0</b>	<b>1.0</b>	<b>0.8</b>	<b>3.3</b>

## OHIO RIVER SYSTEM—CONEMAUGH RIVER, JOHNSTOWN, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	3.2	2.8	10.8	3.4	2.8	1.6	9.2	2.8	0.9	1.0	1.2	0.9
2.....	3.2	2.5	8.2	3.2	2.6	1.5	4.4	2.6	0.9	1.0	1.2	0.9
3.....	3.5	2.3	7.6	3.2	2.8	1.5	4.0	2.4	0.7	0.9	1.1	2.0
4.....	3.4	2.1	5.2	3.2	2.8	1.5	4.3	2.2	0.7	0.9	1.0	2.2
5.....	3.0	2.1	4.0	3.5	2.6	1.3	3.8	2.1	0.6	2.5	1.0	2.0
6.....	2.9	2.0	3.4	5.8	2.6	1.2	4.0	2.6	0.6	2.4	1.0	1.8
7.....	2.7	2.0	3.1	5.9	2.6	1.0	4.0	2.5	0.6	2.4	1.0	1.8
8.....	2.7	2.0	3.5	7.8	2.5	1.8	4.0	2.4	0.6	2.3	0.9	1.8
9.....	2.7	1.8	4.2	7.8	2.5	1.8	5.8	2.3	0.5	2.2	0.9	1.7
10.....	2.6	1.8	3.8	5.9	2.4	1.4	4.0	2.0	0.8	2.2	0.9	1.7
11.....	2.6	1.7	5.3	8.0	2.4	1.2	3.8	2.3	0.8	2.0	0.9	1.8
12.....	2.4	1.7	7.7	5.6	2.3	1.2	3.6	2.3	0.7	5.5	0.8	7.0
13.....	2.3	1.7	8.5	4.8	2.3	1.2	3.4	2.2	0.7	5.3	0.8	4.2
14.....	2.3	1.7	6.0	4.2	2.3	1.1	3.3	2.0	0.6	3.8	0.8	3.5
15.....	2.2	1.5	5.4	3.8	2.2	1.0	3.2	2.0	0.6	3.3	0.8	3.2
16.....	2.2	1.5	4.8	3.8	2.0	1.0	3.2	1.9	0.6	3.2	0.7	2.9
17.....	2.1	1.5	7.5	3.8	2.0	1.0	3.0	1.9	0.5	2.8	0.7	3.8
18.....	2.1	1.4	5.2	3.6	2.0	1.0	2.8	1.7	0.5	2.5	0.7	3.4
19.....	2.0	1.4	4.0	3.4	1.9	1.1	2.8	1.7	0.5	2.3	0.8	3.2
20.....	2.0	1.4	3.4	3.4	1.9	1.0	2.9	1.7	0.5	2.2	0.8	3.0
21.....	2.0	1.4	3.2	3.2	1.9	0.9	2.9	2.0	0.4	2.1	0.8	3.2
22.....	2.2	1.4	3.0	3.2	1.8	0.9	2.9	2.0	0.4	2.0	0.7	5.4
23.....	2.2	1.3	2.8	3.0	1.8	0.9	2.8	1.8	0.4	1.9	0.8	4.8
24.....	2.1	1.8	2.8	3.0	1.8	0.8	2.7	1.7	0.4	1.7	0.8	4.2
25.....	2.1	1.9	2.7	2.8	1.8	0.8	2.6	1.6	0.6	1.6	0.8	3.7
26.....	2.0	2.0	2.6	2.7	1.7	2.8	2.6	1.6	0.6	1.5	0.9	3.4
27.....	2.8	4.2	2.6	2.6	1.7	2.2	2.5	1.5	0.7	1.4	1.0	3.4
28.....	3.5	9.3	2.6	2.6	2.4	1.9	2.5	1.5	0.7	1.4	1.0	3.2
29.....	3.1	.....	3.8	2.6	2.1	1.8	2.4	1.3	0.7	1.4	1.0	3.2
30.....	2.8	.....	3.6	3.1	2.0	3.2	2.5	1.0	0.7	1.3	1.0	3.2
31.....	2.8	.....	3.4	.....	1.7	.....	3.0	0.9	.....	1.3	.....	3.0
Means.	2.6	2.2	4.7	4.1	2.2	1.4	3.5	2.0	0.6	2.2	0.9	3.0
<b>1903</b>												
1.....	2.9	4.0	7.8	3.0	2.5	1.8	3.0	1.7	2.6	0.7	0.6	1.8
2.....	2.9	4.0	4.3	2.8	2.4	1.8	2.7	1.6	2.3	0.7	0.6	1.7
3.....	3.5	7.1	3.7	2.7	2.4	1.7	2.6	1.5	2.0	0.7	0.6	1.5
4.....	5.0	8.0	3.3	2.7	2.4	1.6	2.4	1.5	1.8	0.7	0.5	1.4
5.....	4.2	6.1	3.3	2.7	2.3	1.6	2.8	1.7	1.7	1.3	0.5	1.4
6.....	3.8	4.2	3.2	2.6	2.3	1.5	6.5	1.6	1.6	1.2	0.7	1.3
7.....	3.6	3.8	3.2	2.6	2.3	1.5	4.2	3.0	1.5	1.2	0.7	1.2
8.....	3.5	3.8	3.6	2.6	2.2	2.4	3.6	2.5	1.5	1.5	0.6	1.2
9.....	3.4	3.5	6.2	2.8	2.2	2.2	3.2	2.3	1.7	3.1	0.6	1.0
10.....	3.4	3.3	5.0	2.8	2.2	2.0	3.0	2.0	1.7	2.3	0.5	1.0
11.....	3.1	3.5	4.7	2.8	2.1	2.0	2.9	1.9	2.4	1.9	0.5	1.0
12.....	3.0	4.4	4.2	3.0	2.1	2.0	2.7	1.6	2.0	1.7	0.5	0.9
13.....	2.8	3.8	3.8	4.2	2.0	2.0	3.0	1.4	1.8	1.6	0.4	0.9
14.....	2.6	3.5	3.5	5.0	2.0	2.5	3.0	1.2	1.6	1.4	0.4	0.9
15.....	2.4	3.4	3.3	5.2	1.8	3.0	3.4	1.2	1.6	1.3	0.4	0.8
16.....	2.4	7.5	3.0	6.6	1.8	2.8	3.2	1.1	1.5	1.1	0.6	0.8
17.....	2.4	4.8	3.0	4.8	1.6	2.5	3.0	1.1	1.5	1.1	4.2	0.8
18.....	2.4	3.9	3.0	4.2	1.5	2.4	3.0	1.1	1.5	2.2	3.7	0.8
19.....	2.3	3.7	2.9	3.8	1.4	2.3	3.8	1.0	1.5	1.8	3.0	0.8
20.....	2.2	3.5	2.8	3.4	1.3	2.3	3.6	2.2	1.3	1.6	2.8	0.7
21.....	2.2	3.2	2.8	3.2	1.2	2.7	3.6	1.9	1.2	1.4	2.6	2.0
22.....	2.4	3.0	2.8	3.2	1.0	2.7	3.3	1.6	1.1	1.2	2.6	2.0
23.....	2.3	3.0	4.0	3.0	1.0	3.0	3.0	1.3	1.0	1.1	2.4	2.2
24.....	2.1	3.5	5.5	3.0	1.5	5.0	2.8	1.2	1.0	1.0	2.4	2.0
25.....	2.1	3.3	4.3	3.0	1.7	4.1	2.6	1.2	0.9	0.9	2.3	3.3
26.....	2.0	3.0	3.8	2.9	2.0	3.2	2.5	1.9	0.9	0.8	2.2	3.0
27.....	2.0	3.0	3.4	2.9	2.0	3.0	2.5	1.5	0.9	0.8	2.2	2.5
28.....	2.3	a 9.1	3.2	2.8	2.0	3.0	2.3	3.5	0.8	0.8	2.1	2.2
29.....	5.0	.....	3.2	2.8	1.9	3.5	2.2	4.4	0.8	0.7	1.9	2.0
30.....	9.0	.....	3.0	2.5	1.9	3.2	2.0	3.9	0.8	0.7	1.9	2.0
31.....	5.4	.....	3.0	.....	1.9	.....	2.0	2.9	.....	0.7	.....	1.8
Means.	3.2	4.3	3.8	3.3	1.9	2.5	3.0	1.9	1.5	1.3	1.5	1.5

a Maximum stage, 11.5.

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—CONEMAUGH RIVER, JOHNSTOWN, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.	1.8	2.8	7.0	4.6	3.9	2.0	1.4	1.3	0.6	0.4	0.4	0.5
2.	1.8	2.6	5.5	5.9	3.8	1.8	1.6	1.5	0.6	0.4	0.4	0.4
3.	1.8	2.6	5.8	4.2	3.6	1.7	1.6	1.5	0.5	0.5	0.4	0.4
4.	1.7	2.5	6.5	3.8	3.4	1.5	1.5	1.4	0.5	0.5	0.3	0.4
5.	1.7	2.5	4.4	3.6	3.2	1.4	1.5	1.3	0.5	0.4	0.3	0.4
6.	Frozen.	2.5	3.8	3.5	3.0	1.4	2.0	1.3	0.4	0.7	0.3	0.4
7.		3.5	3.5	3.3	2.7	1.4	2.5	1.1	0.4	0.6	0.3	0.4
8.		6.6	6.6	3.1	2.5	1.4	3.6	1.0	0.3	0.6	0.4	0.4
9.		4.0	4.9	3.1	2.4	1.3	3.5	1.0	0.5	0.7	0.4	0.4
10.		3.7	4.0	3.2	2.4	1.3	5.4	1.0	0.5	0.7	0.3	0.4
11.	1.6	3.5	3.6	3.2	2.2	1.3	3.6	1.1	0.4	0.7	0.3	Frozen.
12.	1.6	3.3	3.4	3.2	2.1	1.2	3.0	1.1	0.4	0.8	0.3	
13.	1.5	3.1	3.2	3.1	1.9	1.1	2.8	1.0	0.4	0.8	0.3	
14.	1.5	2.8	3.1	3.0	1.7	1.0	2.5	1.0	0.4	0.8	0.3	
15.	1.5	2.6	3.0	2.8	1.7	1.0	2.3	1.0	0.7	0.7	0.3	
16.	1.4	2.3	3.0	2.8	1.7	1.0	2.3	0.9	0.7	0.6	0.2	
17.	1.4	2.1	2.8	2.6	1.6	0.9	2.1	0.9	0.6	0.6	0.2	
18.	1.4	2.0	2.8	2.6	1.6	0.9	2.0	0.9	0.6	0.6	0.2	
19.	Frozen.	1.8	2.6	2.6	5.0	0.9	2.0	0.8	0.6	0.6	0.2	
20.		1.7	3.0	2.5	3.4	2.0	2.0	0.8	0.5	0.5	0.2	
21.	2.7	1.6	3.8	2.5	3.0	1.9	1.9	1.0	0.6	0.5	0.2	
22.	2.4	2.0	3.8	2.4	2.9	2.0	1.9	1.0	0.6	0.5	0.2	
23.	8.9	2.5	8.0	2.4	2.8	1.8	1.9	1.1	0.5	0.6	0.2	
24.	5.2	4.0	5.2	2.3	2.8	1.8	1.8	1.0	0.5	0.7	0.2	2.0
25.	3.9	3.8	4.6	2.3	2.6	1.6	1.8	0.9	0.6	0.7	0.2	2.7
26.	3.3	3.6	4.1	3.0	2.4	1.6	1.7	1.0	0.6	0.7	0.2	2.4
27.	3.0	3.3	3.8	4.2	2.4	1.5	1.7	1.0	0.6	0.6	0.2	2.4
28.	2.9	3.3	3.5	4.7	2.4	1.4	1.6	0.8	0.5	0.6	0.2	3.9
29.	2.9	3.8	3.3	4.9	2.2	1.4	1.6	0.8	0.5	0.6	0.2	2.5
30.	2.8		3.1	4.1	2.1	1.4	1.5	0.8	0.5	0.5	0.5	1.4
31.	2.8		3.1		2.0		1.4	0.7		0.5		1.9
Means.	2.8	3.0	4.2	3.3	2.6	1.4	2.2	1.0	0.5	0.6	0.3	0.8

## OHIO RIVER SYSTEM—KISKIMINETAS RIVER, SALTSBURG, PA.

1901												
1.											-0.8	0.6
2.											-0.8	0.4
3.											-0.8	1.0
4.											-0.8	2.8
5.											-0.8	2.0
6.											-0.8	1.6
7.											-0.8	0.9
8.											-0.8	0.9
9.											-0.8	0.9
10.											-0.8	1.2
11.											-0.8	2.5
12.											-0.8	1.8
13.											-0.6	1.4
14.											-0.5	1.2
15.											-0.5	8.0
16.											-0.4	4.6
17.											-0.4	3.2
18.											-0.5	2.5
19.											-0.5	2.0
20.											-0.6	1.4
21.											-0.6	1.2
22.											-0.6	1.0
23.											-0.6	0.8
24.											0.4	0.8
25.											2.8	1.2
26.											2.3	1.8
27.											1.3	2.1
28.											0.8	2.1
29.											0.7	3.0
30.											0.7	3.9
31.												3.1
Means.											-0.2	2.0

\* 11.4 at 5 p. m.

## OHIO RIVER SYSTEM—KISKIMINETAS RIVER, SALTSBURG, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	2.5	2.7	15.5	2.5	1.3	-0.2	8.3	1.0	-0.6	-0.4	-0.1	0.4
2.....	1.8	2.0	7.5	2.2	1.0	-0.3	4.3	2.4	-0.8	-0.4	-0.2	0.3
3.....	1.7	1.7	6.0	2.0	0.8	-0.3	2.6	2.0	-0.8	-0.3	-0.2	0.5
4.....	1.5	1.4	3.8	2.0	1.2	-0.4	6.2	1.5	-0.8	-0.3	-0.3	2.0
5.....	1.3	1.2	3.2	2.5	1.0	-0.4	.....	0.5	-0.8	0.7	-0.3	1.4
6.....	1.0	1.0	2.8	2.7	0.8	-0.5	.....	1.2	-0.8	0.9	-0.4	1.2
7.....	1.0	1.0	2.5	4.0	0.8	-0.5	.....	1.2	-0.9	0.4	-0.4	1.1
8.....	0.9	1.0	2.2	4.2	0.7	-0.5	.....	1.0	-0.7	0.3	-0.4	1.0
9.....	0.9	1.0	2.8	8.0	0.6	-0.6	.....	0.9	-0.7	0.2	-0.5	1.0
10.....	0.8	0.9	3.9	7.3	0.6	-0.6	.....	0.5	-0.7	0.1	-0.5	0.8
11.....	0.7	0.7	4.5	6.0	0.5	-0.6	.....	0.4	-0.7	-0.4	-0.5	1.1
12.....	0.7	0.7	5.4	6.0	0.5	0.0	3.0	0.4	-0.7	2.5	-0.5	6.0
13.....	0.6	0.7	6.4	4.6	0.3	0.2	1.5	0.3	-0.7	3.0	-0.5	5.0
14.....	0.5	0.7	5.4	3.6	0.3	0.0	1.2	0.2	-0.8	2.3	-0.5	4.5
15.....	0.4	0.6	3.9	3.0	0.2	0.0	1.0	0.2	-0.8	1.5	-0.5	3.0
16.....	0.4	0.6	3.4	2.5	0.2	-0.2	0.8	0.2	-0.8	1.0	-0.5	3.2
17.....	0.4	0.6	5.0	2.4	0.1	-0.2	0.5	0.1	-0.9	0.8	-0.6	4.8
18.....	0.3	0.6	3.8	2.2	0.1	-0.3	0.3	0.0	-0.9	0.6	-0.6	3.2
19.....	0.3	0.5	3.0	1.9	0.1	-0.3	0.1	-0.4	-0.9	0.5	-0.6	2.5
20.....	0.3	0.5	2.5	1.8	0.0	-0.3	0.5	-0.6	-0.9	0.4	-0.4	2.0
21.....	0.3	0.5	2.2	1.5	0.0	-0.4	1.0	-0.6	-0.9	0.3	-0.4	2.0
22.....	0.4	0.6	1.9	1.3	-0.1	-0.4	1.0	0.3	-1.0	0.2	-0.4	4.3
23.....	0.3	0.6	1.8	1.1	-0.1	-0.4	0.6	0.0	-1.0	0.0	-0.4	3.7
24.....	0.3	0.6	1.6	0.9	-0.1	-0.5	0.4	0.0	-1.0	-0.1	-0.3	2.8
25.....	0.2	1.8	1.6	0.8	-0.2	-0.5	0.2	-0.3	-1.0	-0.1	-0.3	2.4
26.....	0.5	2.2	1.5	0.7	-0.2	-0.3	1.1	-0.4	-1.0	-0.2	-0.2	2.4
27.....	6.5	4.0	1.3	0.6	-0.2	1.4	1.0	-0.4	-0.6	-0.3	0.5	2.2
28.....	3.5	7.0	1.3	0.6	0.0	0.2	0.7	-0.6	-0.4	-0.3	0.8	2.0
29.....	3.2	.....	1.8	0.5	0.1	0.0	1.2	-0.6	-0.5	-0.3	0.5	1.5
30.....	3.0	.....	2.9	0.7	0.0	3.5	3.0	-0.6	-0.5	-0.1	0.4	1.8
31.....	2.8	.....	2.5	.....	-0.1	.....	.....	-0.6	.....	-0.1	.....	1.8
Means.	1.3	1.3	3.7	2.7	0.3	0.1	1.8	0.3	-0.8	0.4	-0.3	2.3
<b>1903</b>												
1.....	1.6	3.8	8.0	1.9	0.5	0.1	1.4	0.0	1.9	-0.4	-0.2	0.4
2.....	1.4	3.4	4.5	1.8	0.4	0.0	.....	-0.1	1.4	-0.4	-0.3	0.4
3.....	5.4	4.6	3.4	1.4	0.4	0.0	1.0	-0.2	1.0	-0.5	-0.3	0.3
4.....	4.2	4.3	2.6	1.4	0.3	0.0	0.8	-0.2	0.7	-0.5	-0.3	0.3
5.....	3.5	6.5	2.2	1.3	0.3	-0.1	0.8	-0.2	0.5	-0.5	-0.4	0.2
6.....	2.6	4.0	2.4	1.2	0.2	-0.2	5.0	-0.1	0.4	0.0	-0.2	0.2
7.....	2.1	3.2	2.4	1.1	0.2	-0.2	.....	-0.1	0.3	0.5	-0.2	0.2
8.....	1.9	2.4	2.8	1.4	0.1	-0.2	.....	0.9	0.1	0.5	0.1	0.1
9.....	1.8	2.4	5.5	2.9	0.0	0.9	.....	0.5	0.1	3.5	0.0	0.1
10.....	1.6	1.9	4.0	2.5	-0.2	0.5	.....	0.2	0.5	1.9	0.0	0.1
11.....	1.5	1.8	3.4	2.0	-0.2	0.3	.....	0.0	0.8	1.3	-0.1	0.1
12.....	1.5	2.4	3.0	2.0	-0.2	0.2	.....	-0.1	0.5	1.0	-0.1	Frozen.
13.....	Frozen.	3.0	2.5	3.5	-0.2	0.2	.....	-0.2	0.3	0.8	-0.1	.....
14.....	.....	2.5	2.1	3.5	-0.3	1.1	.....	-0.2	0.1	0.5	-0.2	.....
15.....	.....	2.2	1.9	4.5	-0.3	1.8	.....	-0.3	0.0	0.4	-0.2	.....
16.....	.....	5.0	1.8	5.0	-0.3	1.4	.....	-0.3	0.0	0.4	-0.2	.....
17.....	.....	4.8	1.4	4.0	-0.3	1.0	.....	-0.4	0.4	0.3	1.9	.....
18.....	.....	3.0	1.3	3.3	-0.3	0.5	.....	-0.4	0.7	0.5	3.7	.....
19.....	.....	Frozen.	1.2	2.5	-0.4	0.3	3.5	-0.4	0.6	1.0	2.4	.....
20.....	.....	.....	1.0	2.1	-0.4	0.3	4.0	-0.5	0.3	0.6	1.5	.....
21.....	.....	.....	1.0	1.9	-0.4	0.5	2.0	0.0	0.1	0.5	1.3	.....
22.....	.....	.....	1.4	1.5	-0.5	1.4	2.0	0.0	0.0	0.4	1.0	2.5
23.....	.....	.....	1.9	1.3	-0.5	1.2	1.3	-0.1	0.0	0.4	0.8	2.6
24.....	.....	.....	5.5	1.2	-0.5	4.0	1.0	-0.2	-0.1	0.3	0.8	1.9
25.....	.....	.....	3.5	1.0	1.4	2.5	0.6	-0.3	-0.2	0.2	0.8	2.0
26.....	.....	.....	2.6	1.0	1.0	1.8	0.5	0.0	-0.2	0.0	0.7	2.5
27.....	.....	.....	2.2	0.9	0.5	1.3	0.3	0.2	-0.3	0.0	0.6	2.0
28.....	1.5	7.0	1.9	0.8	0.2	1.0	0.3	1.0	-0.3	-0.1	0.5	1.8
29.....	4.2	.....	1.6	0.7	0.1	1.8	0.2	4.5	-0.3	-0.1	0.4	1.8
30.....	6.5	.....	1.4	0.7	0.1	3.0	0.2	2.5	-0.4	-0.2	0.4	1.6
31.....	5.6	.....	1.9	.....	0.1	.....	0.0	2.1	.....	-0.2	.....	1.5
Means.	2.9	3.6	2.7	2.0	0.0	0.9	1.4	0.2	0.3	0.4	0.5	1.1

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—KISKIMINETAS RIVER, SALTSBURG, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	1.5	1.4	0.7	4.5	2.8	1.1	0.0	0.0	-0.4	-0.7	-0.5	-0.9
2.....	Frozen.	1.3	0.4	8.0	2.4	1.0	0.3	0.0	-0.4	-0.7	-0.5	-0.9
3.....		1.0	0.5	4.5	2.0	0.8	0.3	0.5	-0.4	-0.8	-0.5	-1.0
4.....		0.9	8.0	3.5	1.9	0.6	0.2	0.5	-0.4	-0.8	-0.6	-1.0
5.....		0.9	4.0	2.6	1.8	0.5	0.0	0.3	-0.5	-0.8	-0.6	-1.0
6.....		0.8	2.5	2.2	1.5	0.4	0.0	0.1	-0.5	-0.8	-0.6	-1.0
7.....		1.4	2.5	1.9	1.3	0.4	1.5	0.1	-0.5	-0.6	-0.7	-1.0
8.....		2.3	7.0	1.9	1.0	0.6	6.5	0.0	-0.5	-0.6	-0.7	-1.0
9.....		3.5	4.2	1.8	1.0	0.5	4.0	0.0	-0.6	-0.6	-0.7	-1.0
10.....		3.0	3.5	2.2	0.9	0.5	<sup>a</sup> 7.0	0.0	-0.4	-0.6	-0.7	-1.0
11.....		2.5	2.5	1.9	0.8	0.4	4.5	-0.1	0.0	-0.7	-0.7	Frozen.
12.....		2.2	2.4	1.9	0.6	0.3	3.0	-0.1	-0.2	-0.7	-0.6	
13.....		Frozen.	2.0	1.9	0.6	0.2	2.5	-0.2	-0.2	-0.2	-0.6	
14.....			1.9	1.8	0.5	0.1	1.9	-0.2	-0.3	-0.2	-0.6	
15.....			1.7	1.5	0.8	0.0	1.4	-0.2	-0.3	-0.3	-0.7	
16.....			1.4	1.4	1.1	0.0	1.2	-0.3	-0.4	-0.3	-0.7	
17.....			1.2	1.4	0.9	-0.2	1.0	-0.3	-0.4	-0.4	-0.7	
18.....			1.2	1.3	0.7	-0.2	0.7	0.0	-0.4	-0.4	-0.7	
19.....			1.5	1.3	2.6	-0.3	0.5	0.0	-0.4	-0.4	-0.7	
20.....			1.6	1.2	3.0	-0.4	0.5	0.0	-0.5	-0.5	-0.8	
21.....			3.0	1.0	2.1	-0.4	0.5	0.0	-0.5	-0.5	-0.8	
22.....	9.0	2.8	2.5	1.0	1.9	1.0	0.3	0.0	-0.5	-0.5	-0.8	
23.....	12.0	3.5	5.0	0.9	1.5	1.1	0.4	0.0	-0.5	-0.2	-0.8	
24.....	5.5	5.0	5.4	0.7	1.3	1.1	1.0	-0.1	-0.6	-0.2	-0.8	
25.....	3.5	Frozen.	4.0	0.7	1.2	0.9	0.7	-0.1	-0.6	-0.3	-0.8	
26.....	3.0		3.5	1.8	1.0	0.6	0.5	-0.2	-0.6	-0.3	-0.9	2.0
27.....	2.4		3.3	3.4	1.0	0.2	0.4	-0.2	-0.6	-0.3	-0.9	2.3
28.....	2.0		2.5	4.4	1.4	0.0	0.4	-0.2	-0.6	-0.4	-0.9	3.3
29.....	1.7		2.0	4.5	1.1	0.0	0.3	-0.2	-0.7	-0.4	-0.9	2.2
30.....	1.5		1.8	3.5	0.9	0.0	0.2	-0.3	-0.7	-0.4	-0.9	1.2
31.....	1.4		1.6		0.9		0.1	-0.3		-0.4		0.8
Means.....		2.2	2.8	2.4	1.4	0.4	1.3	0.0	-0.5	-0.5	-0.7	0.1

## OHIO RIVER SYSTEM—ALLEGHENY RIVER, WARREN, PA.

1900												
1.....	1.8	2.8	3.2	2.9	1.7	0.5	0.2	0.1	0.0	-0.3	0.5	6.7
2.....	1.7	2.6	2.9	2.8	1.6	0.5	0.2	0.1	0.0	-0.3	1.0	5.0
3.....	1.5	2.6	2.4	3.2	1.5	1.0	0.2	0.1	-0.1	-0.3	1.0	4.2
4.....	1.4	2.6	2.0	4.0	1.5	1.0	0.2	0.0	-0.1	-0.4	0.9	3.5
5.....	1.4	2.6	2.0	4.2	1.4	0.9	0.2	0.0	-0.1	-0.4	0.8	3.8
6.....	2.0	2.5	2.0	4.0	1.4	0.9	0.2	0.0	-0.1	-0.4	0.8	4.0
7.....	2.1	2.5	2.4	4.0	1.3	0.9	0.2	0.0	-0.1	-0.4	0.8	4.5
8.....	2.2	2.5	3.0	5.0	1.3	0.9	0.2	0.0	-0.2	-0.4	0.8	4.0
9.....	2.8	6.3	3.0	5.6	1.2	0.9	0.2	0.0	-0.2	-0.4	0.8	3.8
10.....	3.6	6.2	3.1	5.6	1.0	0.8	0.2	0.0	-0.2	-0.1	1.0	3.2
11.....	5.9	5.6	3.8	5.3	1.0	0.8	0.2	0.0	-0.2	0.5	0.9	3.0
12.....	4.6	4.8	3.8	4.0	1.0	0.8	0.2	0.0	-0.2	0.4	0.9	2.8
13.....	3.2	4.6	3.5	3.9	1.0	0.8	0.6	0.0	-0.2	0.4	0.9	2.5
14.....	3.0	5.0	3.2	3.8	1.0	0.7	0.5	0.0	-0.2	0.3	0.9	2.4
15.....	2.9	5.0	2.6	3.4	1.0	0.7	0.5	0.0	-0.3	0.3	0.8	2.3
16.....	2.8	4.6	2.4	3.1	0.9	0.7	0.4	0.0	-0.3	0.2	0.8	2.2
17.....	3.6	3.8	2.3	3.0	0.9	0.7	0.4	0.0	-0.3	0.2	0.8	2.1
18.....	4.0	3.5	2.2	3.0	0.9	0.7	0.3	0.0	-0.3	0.2	0.8	2.1
19.....	3.8	3.0	2.0	4.4	0.8	0.6	0.3	0.0	-0.3	0.1	0.9	2.0
20.....	5.2	2.9	2.0	5.0	0.8	0.6	0.3	0.0	-0.3	0.1	3.1	2.0
21.....	9.3	2.6	4.6	4.5	0.8	0.6	0.3	0.0	-0.3	0.1	3.2	1.8
22.....	8.2	2.2	5.0	4.0	0.8	0.6	0.3	0.0	-0.3	0.1	4.0	1.7
23.....	7.1	4.2	3.8	3.8	0.7	0.5	0.2	0.0	-0.3	0.1	3.8	1.7
24.....	6.3	6.0	4.1	5.2	0.7	0.5	0.2	0.1	-0.3	0.1	3.8	1.6
25.....	5.6	4.7	5.5	4.2	0.7	0.5	0.2	0.1	-0.3	0.3	4.0	1.6
26.....	4.7	4.1	5.5	3.7	0.7	0.5	0.2	0.0	-0.3	0.3	8.6	1.5
27.....	4.0	4.0	5.0	3.4	0.7	0.5	0.2	0.0	-0.3	0.3	<sup>b</sup> 9.0	2.0
28.....	3.4	3.8	4.1	3.0	0.6	0.5	0.1	0.0	-0.3	0.6	7.9	1.9
29.....	3.0		3.8	2.5	0.6	0.3	0.1	0.0	-0.3	0.6	7.5	1.9
30.....	2.9		3.5	2.0	0.5	0.3	0.1	0.0	-0.3	0.5	8.0	1.8
31.....	2.8		3.1		0.5		0.1	0.0		0.5		1.7
Means.....	3.8	3.8	3.3	3.9	1.0	0.7	0.2	0.0	-0.2	0.1	2.6	2.8

<sup>a</sup>7.5 at 11 a. m.<sup>b</sup>9.5 at 6 p. m.



## DESCRIPTION OF RIVER GAGES, ETC.

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## OHIO RIVER SYSTEM—ALLEGHENY RIVER, WARREN, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	1.6	2.2	1.7	5.6	3.0	5.6	0.9	0.5	1.7	0.8	0.1	3.0
2.....	1.6	2.2	1.7	4.6	2.8	5.0	0.8	0.4	2.3	0.8	0.1	2.6
3.....	1.5	2.2	1.7	3.5	2.8	4.6	0.8	0.4	2.6	0.8	0.1	3.8
4.....	1.5	2.2	1.7	3.2	2.8	4.8	0.7	0.3	2.0	0.7	0.1	4.6
5.....	1.5	2.1	1.7	4.0	3.6	4.0	0.7	0.3	1.6	0.7	0.1	3.8
6.....	1.4	2.1	1.7	4.2	3.0	3.7	0.6	0.3	1.4	0.7	0.1	3.4
7.....	1.4	2.0	1.6	5.6	2.6	3.5	0.6	0.3	1.3	0.6	0.0	2.5
8.....	1.4	2.0	1.6	6.2	2.2	3.0	0.5	0.2	1.3	0.6	0.0	2.0
9.....	1.3	2.0	2.0	7.0	2.0	2.8	0.5	0.2	1.0	0.5	0.0	1.9
10.....	2.0	2.0	3.6	6.6	2.0	2.6	0.5	0.2	0.8	0.5	0.0	2.8
11.....	3.9	2.0	4.6	5.8	1.9	2.5	0.4	0.2	0.8	0.5	0.0	7.0
12.....	4.4	2.0	8.0	5.6	1.9	2.4	0.4	0.1	0.7	0.5	1.0	6.1
13.....	5.1	2.0	5.4	5.4	1.8	2.0	0.4	0.1	0.7	0.5	3.6	4.8
14.....	4.8	2.0	5.0	5.0	1.8	1.8	0.3	0.1	0.7	0.4	3.8	4.2
15.....	3.8	1.9	4.8	4.6	1.7	2.4	0.3	0.1	0.7	0.4	3.2	10.9
16.....	3.4	1.9	4.7	4.2	1.4	2.0	0.3	0.1	2.4	0.4	3.0	9.7
17.....	3.0	1.9	4.4	4.0	1.2	1.9	0.3	0.1	3.0	0.4	2.8	8.2
18.....	3.0	1.9	4.2	3.5	1.1	1.8	0.6	0.1	2.8	0.4	2.6	7.4
19.....	2.8	1.9	3.7	3.2	1.0	1.7	0.5	0.1	2.6	0.4	2.2	6.3
20.....	2.7	1.8	5.0	4.2	1.0	1.6	0.4	0.6	2.5	0.3	2.0	5.3
21.....	2.7	1.8	5.9	6.9	1.0	1.2	0.3	0.5	2.4	0.3	2.0	4.0
22.....	2.6	1.8	6.9	9.5	1.0	2.4	0.3	0.5	2.2	0.2	1.9	3.5
23.....	2.6	1.8	6.9	10.0	1.0	2.8	0.2	0.5	2.0	0.2	1.8	3.2
24.....	2.5	1.8	5.6	10.0	1.0	2.6	0.2	2.0	1.7	0.2	1.8	2.8
25.....	2.5	1.8	5.6	8.2	1.0	2.2	0.2	2.0	1.5	0.2	5.9	2.6
26.....	2.4	1.7	8.1	7.3	1.0	2.0	0.2	2.0	1.4	0.2	5.6	2.4
27.....	2.4	1.7	10.8	6.0	1.5	1.6	0.4	2.0	1.2	0.2	5.0	2.3
28.....	2.4	1.7	9.8	4.8	4.0	1.4	0.2	2.0	1.1	0.2	4.0	2.2
29.....	2.3		8.8	4.2	5.0	1.0	0.2	1.9	1.0	0.2	3.5	2.2
30.....	2.3		7.1	3.8	6.0	1.0	0.2	1.6	0.9	0.1	3.2	2.2
31.....	2.3		6.7		5.9		0.6	1.5		0.1		2.8
<b>Means.</b>	<b>2.6</b>	<b>1.9</b>	<b>4.9</b>	<b>5.6</b>	<b>2.3</b>	<b>2.6</b>	<b>0.4</b>	<b>0.7</b>	<b>1.6</b>	<b>0.4</b>	<b>2.0</b>	<b>4.2</b>
<b>1902</b>												
1.....	2.6	1.1	12.5	3.4	1.8	1.9	5.4	3.0	0.1	0.0	0.3	1.0
2.....	2.4	1.1	13.5	3.2	1.5	1.8	4.3	2.9	0.1	1.0	0.2	0.9
3.....	2.2	1.1	13.0	3.2	1.4	1.6	3.7	2.6	0.1	0.6	0.2	0.8
4.....	2.0	1.0	11.0	3.2	1.2	1.5	6.5	2.5	0.1	0.5	0.2	1.0
5.....	1.8	1.0	8.8	3.0	1.5	1.3	5.5	2.3	0.1	0.5	0.2	2.0
6.....	1.6	1.0	7.0	2.8	2.8	1.2	4.6	2.0	0.1	0.8	0.2	1.9
7.....	1.5	1.0	5.8	3.1	2.4	1.2	5.4	1.9	0.1	0.7	0.2	1.6
8.....	1.5	1.0	4.6	3.4	2.3	1.1	5.7	1.8	0.1	1.0	0.2	1.5
9.....	1.4	1.0	4.0	6.8	2.0	1.0	5.9	1.5	0.0	1.3	0.2	1.4
10.....	1.4	1.0	3.8	7.3	2.5	1.0	5.3	1.7	0.0	1.0	0.2	1.4
11.....	1.4	1.0	3.7	6.7	2.2	1.0	5.6	1.4	0.0	0.8	0.2	1.3
12.....	1.3	1.0	4.0	6.0	2.0	1.0	4.6	1.3	0.0	0.5	0.2	1.2
13.....	1.3	1.0	7.8	5.8	2.0	1.0	4.0	1.3	0.0	0.4	0.2	1.2
14.....	1.3	0.9	7.9	5.6	1.8	1.0	3.8	1.1	0.0	1.1	0.2	1.2
15.....	1.3	0.9	7.0	4.8	1.7	1.0	3.0	1.0	0.0	1.3	0.2	1.2
16.....	1.3	0.9	6.6	4.0	1.6	2.9	2.5	1.0	0.0	1.2	0.2	1.2
17.....	1.2	0.9	6.0	3.8	1.5	2.8	2.1	0.9	0.0	1.0	0.2	1.2
18.....	1.2	0.9	5.9	3.4	1.4	2.6	2.0	0.9	-0.1	1.0	0.2	2.8
19.....	1.2	0.9	5.6	3.0	1.3	2.3	3.2	0.8	-0.2	0.9	0.2	3.5
20.....	1.2	0.9	5.0	2.8	1.3	2.2	5.2	0.8	-0.2	0.8	0.1	3.0
21.....	1.2	0.9	4.5	2.7	1.3	2.1	7.4	0.6	-0.3	0.8	0.1	2.8
22.....	1.2	0.9	4.0	2.6	1.3	2.0	7.2	0.5	-0.3	0.6	0.1	5.6
23.....	1.2	0.9	3.4	2.5	1.2	2.0	6.3	0.5	-0.3	0.5	0.1	6.9
24.....	1.2	1.0	3.2	2.4	1.2	1.9	5.7	0.4	-0.3	0.5	0.1	5.2
25.....	1.2	1.3	3.0	2.4	1.2	1.8	6.8	0.4	-0.3	0.5	0.1	4.2
26.....	1.2	1.4	2.8	2.3	1.7	1.6	5.9	0.3	-0.3	0.4	0.1	3.8
27.....	1.2	1.5	2.6	2.2	2.4	1.5	5.2	0.3	-0.3	0.4	0.1	3.0
28.....	1.2	5.8	2.4	2.0	2.7	1.4	5.5	0.2	-0.3	0.4	0.1	2.6
29.....	1.1		2.3	2.0	2.5	1.4	4.4	0.2	-0.3	0.4	1.3	2.4
30.....	1.1		2.2	1.8	2.2	4.5	3.6	0.2	-0.3	0.4	1.0	2.2
31.....	1.1		2.2		2.0		3.4	0.1		0.3		2.0
<b>Means.</b>	<b>1.4</b>	<b>1.2</b>	<b>5.7</b>	<b>3.6</b>	<b>1.8</b>	<b>1.7</b>	<b>4.8</b>	<b>1.2</b>	<b>-0.1</b>	<b>0.7</b>	<b>0.2</b>	<b>2.3</b>

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—ALLEGHENY RIVER, WARREN, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	1.9	6.5	9.8	3.0	1.2	0.7	1.0	1.7	3.9	0.9	1.0	1.7
2.....	1.5	5.8	8.1	3.5	1.0	0.7	1.0	1.6	3.1	0.9	1.0	1.6
3.....	1.5	5.2	7.0	3.2	1.0	0.6	0.9	1.5	2.8	0.9	0.9	1.6
4.....	2.4	7.0	6.6	6.9	1.0	0.6	0.9	1.5	2.3	0.8	0.9	1.6
5.....	3.5	10.1	5.6	6.4	0.9	0.5	0.9	1.5	2.0	0.8	0.8	1.6
6.....	3.0	8.6	4.8	5.6	0.9	0.5	0.9	1.4	1.7	0.8	0.8	1.4
7.....	2.6	7.7	5.6	5.0	0.9	0.5	1.0	1.6	1.6	2.0	0.8	1.3
8.....	2.4	6.0	5.2	5.0	0.8	0.5	1.0	1.7	1.6	2.2	0.7	1.2
9.....	2.3	5.5	9.7	4.6	0.8	0.4	0.9	1.5	1.2	4.2	0.7	1.2
10.....	2.0	4.6	8.4	3.8	0.8	0.3	0.9	1.4	1.0	4.0	0.7	1.2
11.....	1.8	3.8	9.5	3.3	0.8	0.3	0.7	1.4	2.0	3.4	0.7	1.2
12.....	1.7	3.5	9.4	2.8	0.8	0.3	0.6	1.3	1.7	3.0	0.7	1.1
13.....	Frozen.	4.9	8.6	2.8	0.7	0.2	0.6	1.2	1.6	2.6	0.6	1.0
14.....		5.1	7.7	2.8	0.7	0.8	0.5	1.2	1.5	2.2	0.6	1.0
15.....		4.6	6.8	3.0	0.7	0.9	0.5	1.1	1.5	2.0	0.6	1.0
16.....		4.0	5.6	4.2	0.7	0.8	0.4	1.0	1.4	1.8	0.6	1.0
17.....		3.5	4.2	4.8	0.6	0.7	0.4	1.0	1.4	1.7	5.1	1.0
18.....		2.8	4.0	3.9	0.6	0.7	0.3	1.0	1.3	1.6	6.2	1.0
19.....		Frozen.	3.9	3.4	0.6	0.6	2.0	1.0	1.3	1.5	5.1	1.0
20.....			3.6	3.0	0.6	0.6	2.0	1.0	1.3	1.5	4.4	1.0
21.....			3.0	2.8	0.6	1.0	2.0	0.9	1.3	1.4	4.0	1.0
22.....			4.2	2.6	0.6	1.0	2.0	0.9	1.2	1.4	3.4	1.3
23.....			4.3	2.5	0.6	1.5	2.0	0.9	1.2	1.3	2.8	1.2
24.....			6.6	2.3	0.6	2.3	2.4	0.8	1.2	1.3	2.6	1.6
25.....			6.1	2.0	0.5	2.5	2.1	0.8	1.1	1.3	2.8	1.5
26.....			5.3	2.0	0.5	2.3	1.8	0.8	1.0	1.2	2.4	1.5
27.....			4.4	1.8	0.5	1.7	1.6	0.8	1.0	1.2	2.3	1.5
28.....		4.7	4.0	1.6	0.5	1.5	1.5	0.7	1.0	1.2	2.0	1.5
29.....			3.8	1.5	0.8	1.4	1.5	2.9	1.0	1.1	1.8	1.4
30.....	6.7		3.3	1.4	0.8	1.2	1.5	5.0	1.0	1.0	1.7	1.4
31.....	7.1		3.0		0.7		1.8	3.9		1.0		1.4
Means.....		5.5	5.9	3.4	0.7	0.9	1.2	1.5	1.6	1.7	2.0	1.3
<b>1904</b>												
1.....	1.4	3.2	2.2	6.1	4.8	6.1	0.5	0.3	0.3	1.8	1.4	0.2
2.....	1.3	3.0	5.1	7.4	3.8	5.6	0.5	0.3	0.2	1.4	1.3	0.2
3.....	1.2	2.8	6.6	7.5	3.6	4.8	0.4	0.3	0.2	1.4	1.1	0.1
4.....	1.2	Frozen.	8.6	6.5	3.2	4.0	0.4	0.2	0.8	1.1	1.0	0.1
5.....	1.2		7.1	5.4	3.0	3.0	0.4	0.2	0.8	1.0	1.0	0.1
6.....	1.0		6.6	4.6	2.8	2.6	2.0	0.2	0.6	1.0	1.0	0.1
7.....	1.0	4.2	7.1	4.5	2.5	2.3	1.9	0.1	0.5	0.9	0.8	0.1
8.....	1.0	11.4	11.1	4.1	2.4	2.0	1.5	0.0	0.1	0.6	0.7	0.1
9.....	1.0	9.2	10.0	5.7	2.2	1.9	1.3	0.0	-0.3	0.4	0.6	0.0
10.....	1.0	8.1	8.8	7.0	2.0	2.1	5.2	0.0	-0.4	0.3	0.5	0.0
11.....	Frozen.	7.0	7.7	6.5	1.9	2.0	5.1	0.0	-0.4	0.3	0.4	Frozen.
12.....		6.1	6.5	5.3	1.8	1.8	4.5	0.0	-0.5	1.2	0.4	
13.....		5.3	5.4	5.8	1.7	1.7	3.7	0.0	-0.6	2.1	0.4	
14.....		4.8	3.9	5.1	1.6	1.6	4.1	-0.2	-0.8	1.9	0.4	
15.....		3.8	3.3	4.6	1.6	1.4	3.0	-0.3	-0.9	1.9	0.3	
16.....		3.2	3.0	4.0	1.6	1.2	2.7	-0.5	-0.9	1.6	0.3	
17.....		2.7	2.8	3.4	1.5	1.0	2.2	-0.7	-0.9	1.3	0.3	
18.....		2.3	2.5	3.2	1.5	1.0	2.0	-0.7	-1.0	1.0	0.3	
19.....		2.0	2.3	3.0	6.9	0.9	1.8	-0.7	-1.0	1.0	0.2	
20.....		1.8	2.2	2.8	5.7	0.9	1.7	-0.7	-1.0	0.9	0.2	
21.....		1.4	3.3	2.7	5.0	0.8	1.2	-0.2	-1.0	0.8	0.1	
22.....	3.0	1.3	3.8	2.6	4.6	0.8	1.0	-0.3	-1.0	0.8	0.1	
23.....	10.2	1.1	6.4	2.5	4.2	0.8	0.8	-0.3	-1.1	1.1	0.0	
24.....	9.0	1.7	8.1	2.4	4.4	0.8	0.7	1.0	-1.1	2.0	0.0	
25.....	8.0	2.0	8.0	2.2	4.1	0.7	0.7	0.9	1.0	2.8	0.0	3.0
26.....	6.9	1.6	10.8	2.0	3.8	0.7	0.6	0.8	1.5	2.1	0.0	2.4
27.....	6.3	1.4	11.4	2.0	5.2	0.6	0.5	0.8	1.8	1.8	0.0	2.2
28.....	5.8	1.2	10.7	3.6	4.7	0.6	0.5	0.8	1.8	1.6	0.0	7.4
29.....	5.0	1.2	8.6	3.8	4.2	0.6	0.4	0.8	1.6	1.5	Frozen.	7.8
30.....	4.6		7.0	4.6	3.6	0.5	0.4	0.6	1.3	1.5	0.3	5.1
31.....	4.0		5.7		4.0		0.3	0.4		1.4		4.0
Means.....	3.7	3.6	6.3	4.4	3.4	1.8	1.7	0.1	0.0	1.3	0.5	1.9

## OHIO RIVER SYSTEM—ALLEGHENY RIVER, OIL CITY, PA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	2.5	2.9	3.0	3.2	2.3	1.3	0.6	0.6	0.8	-0.1	0.3	6.8
2.....	2.4	2.8	3.6	3.0	2.0	1.4	0.6	0.6	0.6	-0.1	1.0	6.0
3.....	2.3	3.5	6.3	3.0	2.0	1.4	0.5	0.5	0.4	-0.1	1.6	5.2
4.....	2.1	3.3	5.2	3.9	1.9	1.6	0.5	0.5	0.4	-0.1	1.1	4.0
5.....	2.0	3.6	6.3	4.2	1.9	1.7	0.4	0.4	0.4	-0.1	0.9	4.2
6.....	2.0	4.5	5.9	3.9	1.8	1.5	0.4	0.4	0.3	-0.1	0.7	4.7
7.....	2.2	4.4	5.0	4.4	1.7	1.3	0.6	0.3	0.3	-0.1	0.5	4.9
8.....	2.3	4.3	4.3	5.3	1.7	1.3	0.9	0.3	0.3	-0.1	0.5	4.4
9.....	3.0	6.2	4.0	5.7	1.7	1.5	1.5	0.3	0.3	0.0	0.5	3.9
10.....	3.3	7.4	4.0	5.2	1.7	1.5	1.7	0.3	0.2	0.0	0.6	3.6
11.....	8.6	6.7	4.3	4.8	1.9	1.3	1.0	0.2	0.2	0.7	0.9	3.0
12.....	5.0	5.7	4.0	4.4	2.0	1.2	1.6	0.2	0.2	0.5	0.9	3.0
13.....	4.9	4.9	3.7	3.9	2.4	1.1	2.3	0.2	0.2	0.5	0.7	2.8
14.....	4.5	5.5	3.3	3.7	2.2	1.0	1.5	0.2	0.1	0.4	0.6	2.4
15.....	4.0	5.5	2.9	3.4	2.0	0.9	1.2	0.2	0.1	0.4	0.6	2.4
16.....	3.6	4.9	2.7	3.2	1.8	0.9	0.9	0.2	0.1	0.3	0.6	2.3
17.....	5.0	4.3	2.8	2.9	1.7	0.8	0.8	0.3	0.1	0.3	0.5	2.3
18.....	4.7	3.7	2.8	3.0	1.7	0.8	0.8	0.3	0.1	0.3	0.7	2.3
19.....	4.5	3.4	2.7	4.2	1.6	0.7	0.8	0.3	0.1	0.4	0.9	2.2
20.....	5.3	3.1	3.7	5.0	1.6	0.7	0.8	0.2	0.1	0.3	2.6	2.4
21.....	7.7	2.9	5.2	4.2	1.5	0.7	0.7	0.2	0.1	0.3	3.6	2.2
22.....	9.5	2.8	4.9	3.8	1.4	0.6	0.7	0.2	0.1	0.3	3.8	2.2
23.....	7.9	5.3	4.0	3.7	1.3	0.6	0.6	0.4	0.1	0.2	4.0	2.1
24.....	6.6	5.5	5.0	4.5	1.3	0.6	0.6	0.5	0.1	0.2	3.9	2.1
25.....	5.7	5.0	5.6	4.2	1.2	0.5	0.5	0.3	0.0	0.3	3.9	2.0
26.....	5.0	4.7	5.4	3.8	1.1	0.5	0.8	0.3	0.0	0.5	7.8	2.8
27.....	4.5	3.9	4.9	3.4	1.1	0.6	0.9	0.3	0.0	0.8	10.0	2.8
28.....	4.0	3.3	4.3	3.0	1.1	0.6	0.8	0.5	0.0	0.5	8.6	2.5
29.....	3.5	.....	3.9	2.8	1.0	0.6	0.7	0.8	-0.1	0.4	7.4	2.3
30.....	3.2	.....	3.7	2.7	1.0	0.7	0.7	0.8	-0.1	0.3	7.0	2.1
31.....	3.1	.....	3.5	.....	1.3	.....	0.6	1.0	.....	0.3	.....	2.0
<b>Means.</b>	<b>4.4</b>	<b>4.4</b>	<b>4.2</b>	<b>3.9</b>	<b>1.6</b>	<b>1.0</b>	<b>0.9</b>	<b>0.4</b>	<b>0.2</b>	<b>0.2</b>	<b>2.6</b>	<b>3.2</b>
<b>1901</b>												
1.....	2.0	2.5	1.9	5.4	3.6	6.2	1.4	1.1	2.2	1.5	0.5	3.6
2.....	2.0	2.5	1.8	4.4	3.0	5.4	1.4	1.1	2.4	1.3	0.5	3.3
3.....	2.0	2.4	1.8	3.9	2.9	5.2	1.2	1.1	3.3	1.3	0.5	3.4
4.....	1.9	2.4	2.1	4.2	3.4	4.8	1.1	1.0	3.1	1.2	0.5	4.2
5.....	1.8	2.6	2.5	4.7	3.5	4.3	1.1	0.9	2.7	1.2	0.5	4.2
6.....	1.7	2.4	2.4	5.2	3.0	3.8	1.2	0.8	2.1	1.2	0.5	3.7
7.....	1.6	2.4	2.9	6.4	2.7	3.5	1.1	0.7	1.8	1.1	0.4	3.2
8.....	1.5	2.5	2.8	7.2	2.4	3.3	1.3	0.7	1.5	1.1	0.4	2.8
9.....	1.5	3.0	3.0	7.2	2.5	3.2	1.1	0.7	1.4	1.0	0.4	2.5
10.....	2.4	2.9	4.4	6.3	2.5	3.1	1.0	0.7	1.2	0.9	0.4	4.2
11.....	9.0	2.8	6.8	5.9	2.4	2.9	1.0	0.7	1.2	0.8	0.3	7.2
12.....	5.3	2.8	8.8	5.4	2.5	2.7	0.9	0.7	1.1	0.8	0.3	6.5
13.....	6.0	2.6	7.8	5.2	2.6	2.4	0.8	0.7	1.1	0.8	4.1	5.8
14.....	5.3	2.5	6.9	4.8	2.4	2.3	0.8	0.7	1.8	0.7	4.4	5.0
15.....	4.8	2.4	6.0	4.4	2.1	2.5	0.7	0.6	2.3	0.7	4.0	11.4
16.....	3.9	2.4	5.4	4.2	2.0	2.4	0.7	0.6	3.9	0.7	3.8	11.0
17.....	2.4	2.4	4.7	4.0	1.8	2.3	0.6	0.9	4.1	0.6	3.3	9.3
18.....	3.4	2.3	4.4	3.8	1.7	2.1	0.6	0.8	3.8	0.6	3.0	7.9
19.....	3.4	2.3	4.0	3.7	1.6	1.9	1.2	1.0	3.6	0.7	2.8	6.5
20.....	3.2	2.3	6.1	7.1	1.5	1.8	1.0	0.9	3.1	0.7	2.7	5.8
21.....	3.0	2.2	6.8	9.5	1.5	1.7	0.9	1.6	2.7	0.7	2.6	5.4
22.....	3.0	2.2	7.9	11.0	1.5	1.8	0.8	1.4	2.4	1.0	2.4	4.9
23.....	3.1	2.1	6.7	10.5	1.6	2.9	0.8	1.6	2.2	0.9	2.3	4.0
24.....	2.9	2.1	6.0	10.4	1.8	2.7	0.8	2.0	1.9	0.8	2.4	3.5
25.....	2.9	2.0	6.4	9.6	1.6	2.6	0.8	2.9	1.7	0.8	6.1	3.1
26.....	2.7	2.0	7.4	8.2	1.6	2.4	0.8	3.0	1.5	0.8	8.1	2.9
27.....	2.6	2.0	11.5	7.2	2.1	2.0	0.7	2.8	1.5	0.7	6.4	2.9
28.....	2.6	1.9	11.2	5.8	4.0	1.8	0.9	2.7	1.3	0.7	5.2	2.8
29.....	2.5	.....	9.5	4.9	6.3	1.8	0.8	2.4	1.2	0.6	4.4	2.7
30.....	2.5	.....	8.2	4.2	7.2	1.6	0.8	2.3	1.4	0.6	3.9	3.4
31.....	2.5	.....	6.5	.....	6.8	.....	1.2	2.0	.....	0.6	.....	3.5
<b>Means.</b>	<b>3.1</b>	<b>2.4</b>	<b>5.6</b>	<b>6.2</b>	<b>2.8</b>	<b>2.9</b>	<b>0.9</b>	<b>1.3</b>	<b>2.2</b>	<b>0.9</b>	<b>2.6</b>	<b>4.9</b>

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—ALLEGHENY RIVER, OIL CITY, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	3.1	3.5	14.5	4.0	2.5	2.0	6.2	3.8	0.6	1.4	0.9	1.4
2.....	2.8	3.5	15.3	3.8	2.4	1.8	5.7	3.4	0.6	0.7	0.8	1.3
3.....	2.6	3.5	14.2	3.7	2.3	1.6	4.6	3.1	0.5	1.3	0.8	1.3
4.....	2.5	3.5	12.5	3.7	2.6	1.6	8.8	3.0	0.5	1.3	0.8	1.8
5.....	2.5	3.3	9.6	3.5	2.9	1.8	7.2	2.8	0.5	1.2	0.7	2.3
6.....	2.4	3.1	7.6	3.3	3.8	1.7	5.8	2.6	0.4	1.3	0.7	2.5
7.....	2.3	3.0	4.4	3.1	3.5	1.6	5.1	2.4	0.4	1.4	0.7	2.4
8.....	2.3	2.8	4.4	4.2	3.4	1.5	5.1	2.3	0.4	1.6	0.6	2.3
9.....	2.3	2.8	5.0	6.3	3.4	1.5	5.9	2.1	0.4	1.6	0.6	2.2
10.....	2.2	2.8	5.0	7.7	3.3	1.4	7.9	2.0	0.4	1.9	0.6	2.0
11.....	2.1	3.4	4.7	7.4	2.9	1.4	7.7	1.9	0.4	1.7	0.5	1.8
12.....	2.0	3.7	4.5	6.4	2.7	1.4	6.3	1.8	0.4	1.6	0.5	1.8
13.....	2.0	3.6	6.2	5.8	2.5	1.5	5.4	1.8	0.4	1.5	0.5	2.1
14.....	2.0	3.5	9.2	5.6	2.4	1.6	4.8	1.7	0.4	1.5	0.5	2.0
15.....	2.0	3.5	7.8	5.4	2.3	1.4	3.8	1.6	0.4	1.7	0.5	1.8
16.....	2.0	3.5	6.8	4.9	2.2	1.9	2.9	1.5	0.3	2.0	0.5	1.6
17.....	2.0	3.5	7.0	4.3	2.1	3.4	2.6	1.4	0.3	1.9	0.5	2.6
18.....	2.0	3.4	6.6	3.7	1.9	3.1	2.3	1.4	0.3	1.7	0.5	4.4
19.....	2.0	3.3	5.9	3.3	1.8	2.7	3.3	1.3	0.3	1.6	0.5	3.8
20.....	2.0	3.3	5.2	2.9	1.8	2.6	3.7	1.2	0.3	1.5	0.5	3.7
21.....	1.9	3.3	4.8	2.8	1.8	2.5	7.2	1.2	0.3	1.4	0.9	3.4
22.....	2.0	3.3	4.0	2.8	1.8	2.5	7.5	1.2	0.2	1.3	0.8	5.2
23.....	2.1	3.3	3.7	2.6	1.7	2.4	7.1	1.2	0.2	1.3	0.8	7.5
24.....	2.1	3.1	3.4	2.5	1.7	2.3	6.0	1.1	0.2	1.2	0.8	6.6
25.....	2.0	3.1	3.2	2.4	1.8	2.1	7.4	1.0	0.3	1.2	0.8	5.6
26.....	2.0	3.2	3.0	2.4	2.0	2.2	6.7	1.0	0.5	1.1	0.8	5.0
27.....	2.2	3.5	2.8	2.4	3.4	2.4	5.6	0.9	0.7	1.1	0.9	4.5
28.....	2.4	5.4	2.7	2.3	3.4	2.3	5.9	0.9	0.5	1.0	1.3	4.0
29.....	2.9	.....	2.7	2.3	3.0	2.2	5.2	0.8	0.4	0.9	1.5	3.8
30.....	3.5	.....	3.0	2.3	2.7	4.9	4.9	0.7	0.4	0.9	1.5	3.2
31.....	3.5	.....	3.7	.....	2.4	.....	4.0	0.7	.....	0.9	.....	2.8
<b>Means.</b>	<b>2.3</b>	<b>3.4</b>	<b>9.3</b>	<b>3.9</b>	<b>2.5</b>	<b>2.1</b>	<b>5.6</b>	<b>1.7</b>	<b>0.4</b>	<b>1.3</b>	<b>0.7</b>	<b>3.1</b>
<b>1903</b>												
1.....	2.6	6.8	12.9	3.4	1.8	1.1	1.7	2.5	3.8	0.8	1.3	2.3
2.....	2.5	6.6	11.1	3.5	1.7	1.0	1.4	2.4	3.0	0.8	1.3	2.2
3.....	2.4	7.8	7.9	3.4	1.7	0.9	1.2	2.3	2.8	1.0	1.2	2.1
4.....	5.4	9.6	7.0	6.7	1.7	0.8	1.2	1.9	2.6	1.1	1.2	2.0
5.....	5.2	12.8	6.3	8.3	1.7	0.7	1.8	1.7	2.3	1.2	1.1	1.8
6.....	4.2	11.1	5.6	7.0	1.6	0.7	2.2	1.5	2.0	1.6	1.1	1.8
7.....	3.8	8.6	6.3	5.3	1.6	0.7	2.4	1.7	1.8	1.5	1.2	1.7
8.....	3.2	6.9	6.3	5.1	1.6	0.7	1.5	1.9	1.8	2.0	1.2	1.6
9.....	2.8	6.2	11.6	5.1	1.5	0.7	1.3	1.8	1.8	4.4	1.2	1.6
10.....	2.6	5.3	10.4	4.6	1.4	0.7	1.2	1.7	1.6	4.0	1.2	1.8
11.....	2.5	4.3	10.5	4.0	1.3	0.9	1.2	1.6	1.5	3.6	1.1	1.7
12.....	2.5	4.2	10.7	3.5	1.3	0.9	1.4	1.5	2.2	3.3	1.1	1.6
13.....	2.3	5.5	9.6	3.5	1.3	0.9	1.3	1.5	2.2	2.8	1.1	1.4
14.....	2.1	6.8	8.2	3.6	1.2	1.5	1.1	1.4	1.9	2.6	1.1	1.3
15.....	2.0	5.3	6.9	4.4	1.1	2.2	1.0	1.3	1.7	2.3	1.1	2.0
16.....	2.1	4.9	5.9	5.6	1.0	2.3	1.0	1.2	1.5	2.0	1.1	2.2
17.....	2.2	4.2	5.1	5.8	0.9	1.7	0.9	1.2	1.4	1.8	4.1	2.2
18.....	2.4	4.0	4.3	4.6	0.8	1.3	0.9	1.1	1.3	1.8	7.5	2.4
19.....	2.4	3.7	4.2	3.9	0.8	1.1	3.4	0.9	1.2	1.8	6.2	2.4
20.....	2.2	3.4	3.9	3.7	0.8	1.1	3.2	0.9	1.5	2.0	5.0	2.8
21.....	2.1	3.2	3.7	3.4	1.0	1.5	2.9	0.9	1.5	2.0	4.4	3.2
22.....	2.1	3.2	4.5	3.2	0.9	1.5	2.8	0.9	1.4	1.8	3.8	3.8
23.....	2.0	3.2	4.6	2.9	1.0	2.7	2.6	0.8	1.3	1.7	3.6	2.8
24.....	2.0	3.2	7.2	2.8	0.9	4.8	2.6	0.9	1.2	1.7	3.2	2.8
25.....	2.0	3.2	6.7	2.7	0.9	3.8	2.6	0.9	1.2	1.7	2.9	2.5
26.....	2.0	3.2	5.9	2.5	0.8	2.9	2.4	1.0	1.1	1.6	2.8	2.5
27.....	1.8	3.0	5.0	2.3	0.8	2.4	2.3	1.0	1.0	1.5	2.8	2.5
28.....	1.8	4.0	4.5	2.1	0.9	2.0	2.0	1.2	0.9	1.5	2.7	2.5
29.....	2.0	.....	4.0	2.0	1.3	3.1	1.8	1.4	0.8	1.5	2.5	2.3
30.....	9.4	.....	3.6	1.9	1.4	2.4	1.9	4.6	0.8	1.4	2.4	2.3
31.....	7.6	.....	3.2	.....	1.3	.....	3.0	5.2	.....	1.4	.....	2.1
<b>Means.</b>	<b>3.0</b>	<b>5.5</b>	<b>6.7</b>	<b>4.0</b>	<b>1.2</b>	<b>1.6</b>	<b>1.9</b>	<b>1.6</b>	<b>1.7</b>	<b>1.9</b>	<b>2.4</b>	<b>2.2</b>

## OHIO RIVER SYSTEM—ALLEGHENY RIVER, OIL CITY, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	2.0	3.8	11.0	8.0	4.8	6.3	0.9	0.8	0.9	1.6	1.5	0.4
2.....	2.0	3.5	6.8	9.7	4.2	6.0	0.9	0.8	0.9	1.8	1.4	1.2
3.....	2.0	3.4	7.9	8.2	4.1	5.4	1.0	0.8	0.9	1.7	1.4	1.4
4.....	2.0	3.4	11.6	6.0	3.8	4.7	0.9	0.7	0.9	1.6	1.3	1.3
5.....	2.4	3.2	9.6	5.5	3.2	3.9	1.0	0.7	1.6	1.4	1.3	1.3
6.....	2.9	3.1	7.5	5.0	2.8	3.5	1.4	0.6	1.4	1.4	1.3	1.4
7.....	3.4	3.1	7.7	5.0	2.7	3.1	3.2	0.6	1.1	1.3	1.2	1.5
8.....	3.4	12.2	13.0	4.6	2.5	2.7	2.9	0.6	0.9	1.3	1.1	1.5
9.....	3.5	11.3	10.7	4.3	2.5	2.6	1.9	0.5	0.8	1.2	1.1	1.5
10.....	3.5	9.6	9.1	5.9	2.5	2.5	2.1	0.4	0.8	1.1	1.0	1.8
11.....	3.5	7.8	8.0	6.5	2.3	2.5	4.4	0.4	0.7	1.1	1.0	1.8
12.....	3.5	6.7	6.7	6.0	2.2	2.3	4.3	0.3	0.7	1.3	0.9	1.8
13.....	3.5	6.0	5.2	5.7	2.2	2.2	3.8	0.3	0.6	1.8	0.8	1.9
14.....	3.5	5.1	4.4	5.4	2.0	1.8	4.0	0.3	0.5	2.0	0.8	2.0
15.....	3.7	4.7	3.8	4.8	1.9	1.6	3.3	0.3	0.4	2.0	0.8	2.0
16.....	3.7	3.9	3.4	4.2	2.0	1.5	2.8	0.3	0.4	1.8	0.7	2.0
17.....	3.7	3.4	3.0	4.2	3.1	1.4	2.4	0.3	0.3	1.7	0.7	2.0
18.....	3.7	3.1	2.7	4.0	2.7	1.3	2.0	0.3	0.3	1.6	0.6	2.1
19.....	3.7	2.8	2.8	3.7	3.8	1.3	1.7	0.3	0.3	1.5	0.6	2.1
20.....	3.7	2.5	2.8	3.5	7.4	1.3	1.5	0.3	0.3	1.4	0.6	2.1
21.....	3.8	2.2	3.8	3.5	5.4	1.2	1.4	1.1	0.2	1.4	0.6	2.2
22.....	8.1	2.1	4.0	3.4	4.5	1.2	1.3	1.2	0.2	1.4	0.5	2.2
23.....	13.8	2.5	7.4	3.2	4.0	1.5	1.3	2.1	0.2	1.7	0.5	2.2
24.....	11.6	2.5	8.5	3.0	4.8	1.4	1.3	1.5	0.1	2.1	0.5	2.3
25.....	9.6	2.5	8.3	2.8	5.1	1.2	1.2	1.3	0.0	2.8	0.5	5.4
26.....	7.8	2.3	10.2	2.8	4.9	1.2	1.2	1.5	1.1	2.4	0.4	3.8
27.....	7.2	2.2	14.4	3.3	5.8	1.1	1.1	1.5	2.1	2.2	0.4	3.6
28.....	6.8	2.0	10.9	4.0	6.5	1.0	1.0	1.5	1.8	2.0	0.4	6.8
29.....	5.9	2.2	8.8	4.8	5.3	0.9	0.9	1.4	1.5	2.0	0.4	8.2
30.....	4.9	.....	7.0	5.3	4.4	0.9	0.9	1.3	1.5	1.8	0.4	6.4
31.....	4.2	.....	5.8	.....	4.7	.....	0.9	1.1	.....	1.7	.....	5.2
Means.	4.7	4.2	7.3	4.9	3.8	2.3	1.9	0.8	0.8	1.7	0.8	2.6

## OHIO RIVER SYSTEM—ALLEGHENY RIVER, PARKER, PA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	Frozen.	Frozen.	3.0	3.7	2.6	1.7	0.5	0.7	0.7	-0.2	0.7	7.3
2.....	.....	.....	3.6	3.2	2.5	1.9	0.4	0.6	0.7	-0.1	0.7	6.6
3.....	.....	.....	3.6	3.5	2.4	2.0	0.3	0.5	0.6	0.0	1.0	5.0
4.....	.....	.....	3.5	4.5	2.2	2.2	0.2	0.4	0.6	0.0	1.2	4.3
5.....	.....	.....	3.3	4.8	2.0	2.2	0.2	0.3	0.6	0.0	1.1	4.8
6.....	.....	.....	3.8	4.7	1.9	2.0	0.2	0.2	0.5	0.0	0.9	5.5
7.....	.....	.....	10.0	4.7	1.7	1.9	0.3	0.2	0.5	0.0	0.7	5.5
8.....	.....	.....	8.5	4.6	1.5	1.8	0.8	0.1	0.7	0.0	0.6	5.0
9.....	.....	7.0	6.5	6.3	1.5	1.6	1.2	0.0	0.7	0.1	0.6	4.3
10.....	.....	8.0	6.0	5.9	1.4	1.6	1.5	0.0	0.6	0.2	0.8	3.9
11.....	.....	7.8	5.9	5.2	1.6	1.4	1.3	0.0	0.5	0.4	0.9	3.5
12.....	20.0	7.0	5.7	4.5	1.7	1.3	1.6	0.1	0.4	0.8	0.9	3.2
13.....	6.0	7.5	5.0	4.2	2.4	1.2	2.8	0.1	0.3	0.6	0.8	3.0
14.....	4.9	7.3	4.5	3.9	2.4	1.2	2.0	0.1	0.1	0.5	0.7	2.8
15.....	4.3	7.1	4.0	3.5	2.3	1.2	1.5	0.1	0.0	0.5	0.7	2.6
16.....	4.6	6.5	3.2	3.2	2.2	1.1	1.3	0.2	-0.1	0.4	0.6	2.5
17.....	5.5	5.0	2.8	2.8	1.8	1.0	1.2	0.2	-0.2	0.4	0.6	2.2
18.....	5.8	4.5	2.4	2.8	1.5	0.9	1.0	0.4	-0.3	0.4	0.7	2.1
19.....	5.6	4.0	2.2	4.6	1.4	0.8	1.0	0.5	-0.3	0.5	0.9	2.0
20.....	6.3	3.5	4.0	5.7	1.2	0.7	1.0	0.5	-0.3	0.6	1.1	2.1
21.....	9.8	3.0	6.0	5.3	1.2	0.6	0.9	0.4	-0.2	0.4	3.4	2.2
22.....	11.0	3.0	5.7	4.9	1.2	0.5	0.8	0.5	-0.2	0.3	4.0	2.2
23.....	9.2	5.9	5.0	4.3	1.2	0.5	0.7	0.6	-0.2	0.3	4.1	2.2
24.....	7.6	6.6	5.3	4.6	1.1	0.4	0.6	0.8	-0.2	0.5	3.7	2.1
25.....	6.3	5.0	5.9	4.6	1.0	0.4	0.5	1.0	-0.3	0.7	4.2	2.0
26.....	5.6	4.0	6.0	4.0	1.0	0.3	1.4	1.0	-0.3	0.9	8.7	2.2
27.....	5.0	3.6	5.8	3.6	0.9	0.3	1.5	0.8	-0.3	0.9	12.6	2.4
28.....	4.5	3.0	5.0	3.0	0.8	0.4	1.5	0.8	-0.3	0.9	10.2	2.3
29.....	4.0	.....	4.6	2.8	0.9	0.5	1.3	0.9	-0.4	0.8	8.8	2.0
30.....	3.5	.....	4.2	2.7	1.0	0.5	1.0	0.8	-0.3	0.7	8.1	2.0
31.....	3.0	.....	4.0	.....	1.5	.....	0.8	0.8	.....	0.6	.....	1.8
Means.	6.6	5.5	4.8	4.2	1.6	1.1	1.0	0.4	0.1	0.4	2.8	3.3

## OHIO RIVER SYSTEM—ALLEGHENY RIVER, PARKER, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	1.8	2.0	1.6	6.0	4.0	6.9	1.6	1.2	1.5	1.8	0.2	4.0
2.....	1.8	1.9	1.7	4.9	3.7	6.0	1.4	1.2	3.3	1.6	0.1	3.5
3.....	1.7	1.8	1.6	4.3	3.4	5.8	1.4	1.1	3.5	1.5	0.1	3.5
4.....	1.6	1.8	1.8	5.0	4.0	5.4	1.3	1.0	3.2	1.4	0.1	4.2
5.....	1.5	1.8	2.8	5.9	4.3	4.8	1.6	1.0	2.6	1.2	0.1	4.8
6.....	1.4	1.8	2.6	7.0	3.7	4.0	1.7	0.9	2.0	1.1	0.0	4.2
7.....	1.4	1.7	2.4	8.2	3.4	3.7	1.7	0.8	1.8	1.0	0.1	3.7
8.....	1.4	1.7	2.2	8.4	3.2	3.6	1.6	0.7	1.3	0.9	-0.1	3.1
9.....	1.6	1.7	2.8	8.0	2.8	3.5	1.5	0.6	1.3	0.8	-0.1	2.8
10.....	1.9	1.6	4.0	7.2	2.7	3.4	1.4	0.5	1.3	0.7	-0.2	4.2
11.....	6.8	1.6	11.0	6.3	2.8	3.2	1.3	0.4	1.3	0.7	-0.2	8.0
12.....	6.7	1.5	11.5	6.0	3.3	2.8	1.2	0.6	1.2	0.6	-0.1	8.0
13.....	7.2	1.5	11.0	5.6	3.3	2.6	1.2	0.8	1.4	0.6	2.4	6.7
14.....	6.4	1.5	9.2	5.0	2.8	2.2	1.1	0.5	2.2	0.5	5.0	5.6
15.....	5.0	1.4	8.2	5.0	2.5	2.8	1.0	0.5	2.3	0.5	4.7	12.0
16.....	4.3	1.4	7.4	4.6	2.3	3.0	0.9	0.7	4.5	0.4	3.7	11.6
17.....	4.3	1.4	6.8	4.2	2.2	2.8	0.9	0.9	5.0	0.3	3.0	10.6
18.....	4.0	1.4	5.6	3.9	2.0	2.6	0.9	1.7	4.3	0.5	2.9	8.5
19.....	3.8	1.3	5.2	3.9	1.8	2.2	1.1	1.8	4.2	0.4	2.8	7.3
20.....	3.5	1.3	7.0	9.9	1.8	2.0	1.2	2.3	3.5	0.3	2.3	6.4
21.....	3.3	1.3	8.0	12.0	1.7	1.8	1.1	2.2	2.9	0.3	2.3	5.6
22.....	3.0	1.2	9.0	12.0	1.7	1.8	1.0	1.9	2.7	0.6	2.3	4.5
23.....	3.0	1.2	8.2	12.0	1.9	2.0	0.9	2.3	2.2	0.6	2.2	4.0
24.....	3.2	1.4	6.8	11.4	2.0	3.3	0.8	2.7	1.9	0.6	2.9	4.0
25.....	3.5	1.5	7.0	11.0	2.0	3.0	0.7	3.5	1.7	0.5	7.6	4.5
26.....	3.3	1.5	7.7	9.5	1.7	2.0	0.7	3.2	1.5	0.4	8.5	4.8
27.....	3.0	1.5	12.0	8.2	3.3	1.6	0.7	2.7	1.4	0.3	7.4	4.0
28.....	2.8	1.5	13.0	7.0	5.0	1.6	0.8	2.4	1.3	0.3	6.6	3.7
29.....	2.6		10.4	5.6	8.7	1.8	0.8	2.0	1.2	0.3	5.6	3.7
30.....	2.4		8.5	4.5	8.7	1.7	0.8	1.8	1.3	0.2	4.8	4.0
31.....	2.2		7.8		8.0		0.9	1.7		0.2		3.8
Means.	3.2	1.5	6.6	7.1	3.4	3.1	1.1	1.5	2.3	0.7	2.6	5.5
<b>1902</b>												
1.....	3.6	2.1	18.0	4.6	2.5	2.0	7.8	4.8	0.3	1.2	1.2	1.8
2.....	3.4	2.3	18.0	5.6	2.4	1.8	7.0	4.0	0.3	1.3	1.3	1.6
3.....	3.3	2.3	12.5	4.3	2.5	1.6	5.4	3.7	0.3	1.6	1.2	1.5
4.....	3.2	2.1	11.5	4.2	3.0	1.5	11.4	3.5	0.2	1.9	1.0	1.8
5.....	3.1	2.0	10.0	4.2	3.2	1.5	9.4	3.1	0.1	2.1	0.8	2.7
6.....	2.9	2.0	8.0	4.1	4.3	1.7	7.1	2.8	0.1	2.2	0.7	2.8
7.....	2.8	1.9	6.4	5.2	4.2	1.5	6.4	2.5	0.1	2.2	0.7	2.5
8.....	3.0	1.8	5.7	5.3	3.9	1.5	6.0	2.3	0.0	2.4	0.6	2.3
9.....	3.0	1.8	5.6	8.3	3.8	1.4	6.7	2.2	0.0	2.4	0.6	1.9
10.....	3.0	1.7	5.8	10.2	3.3	1.3	9.0	1.9	0.0	2.1	0.6	1.8
11.....	2.9	1.7	5.6	9.4	3.0	1.3	9.8	2.5	0.1	1.8	0.6	1.8
12.....	2.8	1.7	5.7	7.9	2.6	1.3	7.5	2.3	0.1	1.7	0.6	2.7
13.....	2.6	1.6	7.1	7.3	2.4	1.3	6.2	2.1	0.0	1.6	0.6	2.9
14.....	2.4	1.6	10.1	6.1	2.3	1.6	4.7	1.9	0.0	1.6	0.6	2.5
15.....	2.3	1.5	8.8	5.6	2.1	1.5	3.7	1.7	-0.1	1.6	0.5	2.3
16.....	2.1	1.5	7.3	4.9	2.0	1.4	3.3	1.6	-0.1	1.5	0.5	2.8
17.....	2.0	1.4	7.0	4.5	1.8	3.6	3.0	1.5	-0.1	2.3	0.5	4.8
18.....	1.9	1.4	7.2	4.1	1.6	3.4	2.8	1.4	-0.2	2.0	0.6	5.6
19.....	1.8	1.4	6.3	3.7	1.5	2.7	3.0	1.3	-0.2	1.8	0.7	5.2
20.....	1.8	1.4	4.3	3.3	1.5	2.4	4.0	1.2	-0.2	1.5	1.0	4.6
21.....	1.7	1.3	4.8	3.2	1.6	2.2	6.8	1.2	-0.2	1.4	1.3	4.5
22.....	1.7	1.3	4.3	3.2	1.8	2.1	8.0	1.1	-0.2	1.2	1.2	7.6
23.....	1.7	1.3	4.0	2.9	1.7	2.1	8.8	1.0	-0.2	1.2	1.2	9.0
24.....	1.7	1.3	3.7	2.6	1.6	1.9	7.3	0.9	-0.2	1.1	1.1	8.0
25.....	1.8	1.4	3.4	2.2	2.0	1.7	7.1	0.8	0.0	0.9	1.2	7.4
26.....	2.0	1.5	3.0	2.0	2.3	1.9	7.8	0.7	0.2	1.0	1.1	7.0
27.....	2.1	1.8	2.8	2.0	3.1	2.2	6.4	0.6	0.6	0.9	1.3	6.6
28.....	2.0	5.1	2.5	2.0	3.6	2.1	6.3	0.5	0.8	0.8	1.6	5.2
29.....	2.0		2.8	2.0	3.1	1.9	5.7	0.4	1.0	0.7	2.2	4.6
30.....	1.9		3.8	2.1	2.7	4.6	5.9	0.4	0.9	0.9	2.0	4.0
31.....	1.8		4.5		2.2		5.4	0.3		1.2		3.8
Means.	2.4	1.8	6.8	4.6	2.6	2.0	6.4	1.8	0.1	1.6	1.0	4.0

## OHIO RIVER SYSTEM—ALLEGHENY RIVER, PARKER, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	3.7	7.1	15.0	4.0	1.6	1.3	2.8	2.9	5.8	0.6	1.1	2.3
2.....	3.2	6.0	11.4	3.9	1.5	1.2	2.3	2.4	4.7	0.6	1.0	2.2
3.....	3.3	8.5	10.0	3.6	1.4	1.1	1.9	1.2	3.8	0.5	1.0	2.0
4.....	5.0	11.0	8.1	6.3	1.4	1.0	1.6	1.7	3.0	1.0	0.9	2.0
5.....	5.2	12.2	6.8	8.8	1.5	0.9	1.6	1.5	2.3	1.2	0.9	1.9
6.....	4.3	10.5	6.8	7.6	1.6	0.8	2.0	1.6	2.2	1.8	1.0	1.8
7.....	3.9	9.6	7.0	6.1	1.4	0.8	2.8	1.8	1.8	2.0	1.0	1.6
8.....	3.4	7.9	7.4	5.6	1.3	0.8	2.0	2.0	1.5	2.1	1.0	1.5
9.....	3.1	6.8	13.0	5.5	1.2	1.0	1.6	1.9	2.0	5.4	1.1	1.5
10.....	2.8	5.4	12.5	4.8	1.2	1.2	1.4	1.8	1.6	5.7	1.1	1.7
11.....	2.6	4.6	13.0	4.0	1.1	1.3	1.3	1.5	1.6	4.8	1.0	1.7
12.....	2.5	5.9	13.2	4.0	1.1	1.3	1.2	1.4	2.3	3.8	1.0	1.6
13.....	2.4	6.9	10.8	5.4	1.1	1.4	1.2	1.3	2.5	3.2	1.0	1.6
14.....	2.3	7.0	8.8	5.4	1.0	1.6	1.2	1.0	2.2	2.5	0.9	1.5
15.....	2.1	6.2	7.4	6.0	1.0	1.9	1.2	1.0	1.8	2.2	0.9	1.5
16.....	2.0	5.8	6.1	6.8	1.0	2.2	1.1	1.0	1.4	2.0	0.9	1.5
17.....	1.9	5.4	5.2	6.6	0.9	1.7	1.0	0.9	1.3	1.8	4.7	1.5
18.....	2.0	4.0	5.0	5.7	0.9	1.3	1.1	0.8	1.2	1.8	10.0	1.4
19.....	2.0	3.2	4.8	5.2	0.8	1.2	3.0	0.7	1.6	1.9	7.5	1.4
20.....	1.9	Frozen.	4.4	4.8	0.8	1.2	4.5	0.8	1.4	2.1	6.0	1.5
21.....	1.8		4.2	3.8	0.7	1.4	4.4	1.0	1.6	2.0	4.8	2.0
22.....	1.8		4.2	3.4	0.7	1.5	3.8	0.9	1.4	1.8	4.0	2.4
23.....	1.8		5.2	3.0	0.7	2.9	3.4	0.8	1.2	1.6	3.2	2.8
24.....	1.8		7.6	2.8	0.8	6.5	3.0	0.7	1.0	1.4	3.0	2.8
25.....	1.8		7.6	2.6	0.8	4.7	2.7	0.6	1.0	1.3	3.0	2.8
26.....	1.7		6.5	2.4	0.8	3.9	2.4	0.6	1.0	1.4	2.9	2.8
27.....	1.7		5.6	2.2	0.9	3.4	2.0	0.5	1.0	1.4	2.8	2.7
28.....	1.8	13.0	4.9	2.0	1.0	3.0	1.8	1.9	0.9	1.3	2.6	2.6
29.....	2.1		4.0	1.9	1.4	2.9	1.7	1.7	0.8	1.2	2.5	2.5
30.....	10.0		3.7	1.7	1.4	3.0	1.5	4.3	0.7	1.2	2.4	2.5
31.....	8.2		3.5		1.4		3.4	6.9		1.2		2.4
<b>Means.</b>	<b>3.0</b>	<b>7.4</b>	<b>7.5</b>	<b>4.5</b>	<b>1.1</b>	<b>1.9</b>	<b>2.2</b>	<b>1.6</b>	<b>1.9</b>	<b>2.0</b>	<b>2.5</b>	<b>2.0</b>
<b>1904</b>												
1.....	2.3	3.7	8.0	11.5	6.3	7.4	1.2	1.2	1.0	1.4	1.4	0.2
2.....	2.4	3.4	8.5	13.5	5.6	7.5	1.3	1.0	0.9	1.2	1.4	0.4
3.....	2.2	3.4	11.0	9.3	4.8	7.4	1.4	0.9	0.8	1.5	1.3	1.0
4.....	2.1	3.0	15.8	8.8	4.3	6.2	1.3	0.8	0.8	1.4	1.2	1.3
5.....	2.2	2.8	12.0	7.1	3.8	5.0	1.4	0.7	0.9	1.4	1.0	1.2
6.....	2.0	2.5	8.2	6.3	3.3	4.3	1.5	0.6	1.3	1.3	1.0	1.2
7.....	2.0	3.6	10.0	5.6	3.0	3.6	4.3	0.5	1.0	1.2	1.0	1.1
8.....	1.9	14.5	14.9	5.3	2.8	3.2	3.3	0.4	0.7	1.1	0.9	1.1
9.....	1.8	12.0	12.0	5.6	2.7	3.0	2.8	0.3	0.7	1.1	0.8	1.0
10.....	1.8	9.7	10.1	7.0	2.4	2.8	4.3	0.3	0.6	1.0	0.7	1.0
11.....	1.7	8.2	8.7	7.4	2.3	2.9	6.9	0.3	0.5	0.9	0.7	1.0
12.....	1.7	8.0	7.8	6.8	2.2	1.7	5.8	0.2	0.4	1.0	0.7	0.9
13.....	1.7	7.5	7.3	6.2	2.0	2.2	4.8	0.2	0.3	1.6	0.7	0.9
14.....	1.7	7.1	5.4	5.8	2.0	1.9	5.0	0.2	0.2	1.9	0.7	0.9
15.....	1.7	6.0	4.8	5.0	2.1	1.7	4.3	0.2	0.2	1.9	0.6	0.9
16.....	1.7	5.2	4.3	4.5	2.8	1.8	3.5	0.1	0.1	1.9	0.5	0.8
17.....	1.8	4.3	3.8	4.3	2.8	1.7	2.6	0.1	0.1	1.6	0.5	0.8
18.....	1.8	3.5	3.5	4.1	2.5	1.5	2.1	0.1	0.1	1.3	0.4	0.7
19.....	1.8	3.1	3.5	3.9	3.3	1.4	2.8	0.1	0.1	1.2	0.4	0.7
20.....	1.8	2.8	4.4	3.7	8.0	1.3	1.0	0.2	0.0	1.1	0.4	0.7
21.....	2.0	2.8	5.2	3.6	6.4	1.3	1.9	0.7	0.0	1.0	0.4	0.8
22.....	10.0	2.8	5.0	3.2	4.8	1.7	1.6	1.3	0.0	1.0	0.3	0.9
23.....	19.0	3.1	6.0	3.0	4.6	1.7	1.5	1.5	-0.1	1.0	0.3	1.0
24.....	14.5	3.4	9.4	3.0	5.0	1.6	1.4	2.3	0.0	1.5	0.3	1.2
25.....	11.0	3.3	9.3	2.9	6.3	1.5	1.3	1.6	0.0	2.8	0.3	4.6
26.....	10.0	3.2	9.9	3.8	5.6	1.4	1.2	1.5	0.1	2.8	0.3	4.0
27.....	7.0	3.1	14.0	4.1	6.8	1.3	1.0	1.5	1.8	2.3	0.3	4.0
28.....	5.6	3.1	12.4	5.1	7.4	1.3	1.0	1.4	2.2	2.3	0.3	7.4
29.....	5.0	3.3	9.6	5.9	5.6	1.3	1.0	1.3	1.8	2.1	0.2	7.3
30.....	4.5		7.3	6.6	4.8	1.2	1.2	1.2	1.6	1.8	0.2	5.6
31.....	4.0		6.4		4.9		1.5	1.2		1.6		4.3
<b>Means.</b>	<b>4.2</b>	<b>4.9</b>	<b>8.3</b>	<b>5.8</b>	<b>4.2</b>	<b>2.8</b>	<b>2.5</b>	<b>0.8</b>	<b>0.6</b>	<b>1.5</b>	<b>0.6</b>	<b>1.9</b>

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—ALLEGHENY RIVER, FREEPORT, PA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	3.8	5.8	7.2	6.8	4.7	3.5	2.7	1.6	1.6	0.3	1.3	11.7
2.....	3.8	4.8	12.2	6.6	4.5	3.5	2.1	1.5	1.3	0.4	1.2	10.0
3.....	4.8	4.8	9.8	6.5	4.3	4.0	2.0	1.5	1.0	0.3	1.4	9.6
4.....	5.0	4.8	7.7	7.0	4.0	3.9	1.9	1.3	0.7	0.3	1.8	9.5
5.....	5.0	6.3	7.0	7.4	3.6	3.6	2.4	1.2	0.9	0.3	2.0	11.0
6.....	5.4	9.2	8.5	7.3	3.2	3.2	2.9	0.9	0.9	0.3	1.6	10.8
7.....	5.0	9.6	16.0	7.1	2.8	3.0	3.0	1.0	1.0	0.3	1.4	10.0
8.....	4.4	9.8	14.0	8.2	2.6	2.8	4.8	0.7	0.9	0.3	1.3	9.3
9.....	4.0	16.5	11.5	9.0	2.6	2.7	4.5	0.7	1.0	0.3	1.1	8.4
10.....	4.0	15.5	10.6	9.3	2.7	2.7	3.6	0.7	0.9	0.7	1.4	8.0
11.....	7.0	13.3	10.5	8.6	2.7	2.9	3.2	0.5	0.7	0.9	1.8	7.7
12.....	9.5	11.5	9.7	7.3	2.8	2.8	2.9	0.4	0.6	0.9	1.9	7.4
13.....	13.6	10.4	8.8	7.0	3.4	2.5	5.2	0.5	0.6	1.1	2.0	7.0
14.....	9.5	12.8	7.2	6.8	4.3	2.9	4.8	0.4	0.6	1.3	2.2	6.8
15.....	8.8	12.0	7.0	6.7	4.0	4.0	3.8	0.4	0.5	1.2	2.0	6.5
16.....	8.0	10.8	6.7	6.1	3.4	3.5	2.7	0.3	0.5	1.2	1.8	6.0
17.....	9.0	9.7	6.0	5.4	3.0	2.8	2.0	0.3	0.5	1.1	1.6	5.4
18.....	9.5	8.5	5.5	5.3	2.7	2.5	2.2	0.5	0.5	1.1	1.6	5.0
19.....	11.0	6.5	5.0	6.7	2.7	2.4	2.1	1.0	0.7	0.9	1.9	4.8
20.....	13.4	5.0	8.0	8.6	2.8	2.0	2.3	0.8	1.0	0.8	2.4	4.5
21.....	15.4	4.7	11.0	7.7	3.0	1.8	2.2	0.7	1.0	0.8	3.9	4.2
22.....	17.5	4.8	10.3	7.8	2.9	1.8	1.9	1.9	0.9	0.7	6.6	4.0
23.....	16.8	9.9	9.2	7.0	2.7	1.7	1.8	1.1	0.7	0.7	7.1	3.8
24.....	12.5	11.0	8.7	6.8	2.5	1.5	1.5	1.4	0.6	1.1	6.6	3.6
25.....	10.8	10.4	9.1	7.1	2.3	1.3	1.4	2.4	0.4	2.2	6.8	3.5
26.....	9.7	9.0	9.3	7.0	2.2	1.2	2.2	3.2	0.3	2.6	13.0	3.4
27.....	8.7	8.5	9.3	6.2	2.0	1.7	3.6	2.1	0.3	2.5	21.7	3.4
28.....	7.2	7.0	8.9	5.4	1.9	1.5	3.1	1.8	0.3	2.3	17.0	3.0
29.....	6.4		7.8	5.0	2.0	1.8	2.8	2.2	0.2	1.7	14.1	3.0
30.....	6.0		7.3	4.8	2.1	2.9	2.3	2.1	0.2	1.5	12.8	2.8
31.....	5.7		7.0		3.3		2.2	1.9		1.4		2.7
<b>Means.</b>	<b>8.4</b>	<b>9.0</b>	<b>8.9</b>	<b>7.0</b>	<b>3.0</b>	<b>2.6</b>	<b>2.8</b>	<b>1.2</b>	<b>0.7</b>	<b>1.0</b>	<b>4.8</b>	<b>6.3</b>
<b>1901</b>												
1.....	2.5	3.2	2.8	9.8	7.0	12.0	3.9	1.6	3.2	2.6	1.0	6.8
2.....	2.4	3.0	3.2	8.7	6.7	10.5	2.9	2.1	4.0	2.9	1.0	6.9
3.....	2.0	2.9	4.0	8.0	6.0	10.0	2.8	1.9	5.7	2.8	1.0	6.9
4.....	1.8	3.0	10.3	11.0	6.7	9.1	2.7	1.8	5.7	2.5	1.0	7.0
5.....	1.8	3.3	9.0	12.0	6.9	8.7	2.5	1.7	4.8	2.3	1.0	7.0
6.....	1.8	3.5	7.7	14.0	6.7	7.0	3.3	1.4	3.9	2.1	0.9	7.0
7.....	1.8	3.3	6.0	18.0	5.3	6.8	3.2	1.1	3.3	2.0	0.9	6.6
8.....	2.0	3.0	5.5	16.5	5.2	8.7	2.9	1.0	2.8	2.0	0.9	5.4
9.....	2.2	3.0	5.3	14.4	5.0	7.0	2.8	0.9	2.4	1.9	0.9	5.0
10.....	3.0	2.8	14.0	12.6	5.0	6.7	2.7	0.9	2.2	1.8	0.9	6.7
11.....	11.0	2.6	15.5	11.0	6.0	6.0	2.6	1.0	2.0	1.7	0.9	12.6
12.....	12.0	2.6	17.9	9.9	6.7	5.0	2.5	0.9	2.3	1.6	1.0	13.0
13.....	12.3	2.6	15.6	9.0	6.9	4.8	2.4	1.0	3.1	1.4	1.3	11.0
14.....	11.0	2.5	14.7	8.8	6.8	4.8	2.4	1.0	3.3	1.4	6.6	9.0
15.....	9.7	2.5	14.0	9.1	5.9	5.0	2.3	1.2	4.3	1.3	7.0	16.3
16.....	9.0	2.5	12.5	8.8	5.1	5.1	2.0	1.9	4.5	1.4	6.0	21.4
17.....	8.3	2.6	11.0	8.0	5.0	5.0	1.9	1.9	7.6	1.4	5.1	16.8
18.....	8.0	2.8	9.8	7.0	4.1	4.9	2.5	3.2	7.0	1.3	4.8	14.0
19.....	7.6	3.0	7.9	6.9	4.0	4.6	2.5	4.0	6.7	1.3	4.7	12.0
20.....	7.0	3.0	8.8	16.0	4.0	3.9	2.8	4.5	5.9	1.2	4.6	10.0
21.....	6.5	3.0	12.0	23.0	3.9	5.0	2.3	4.7	5.0	1.2	4.4	8.3
22.....	6.2	2.9	13.8	19.4	4.0	5.0	1.9	4.4	4.3	1.4	4.1	7.0
23.....	5.9	2.9	12.7	18.3	4.4	5.0	1.5	4.0	3.8	1.8	3.7	6.2
24.....	5.7	2.9	11.0	17.0	4.9	6.1	1.3	4.8	3.3	1.6	4.6	6.6
25.....	5.4	2.8	10.7	16.4	5.3	6.0	1.3	5.9	3.0	1.5	10.2	7.0
26.....	5.3	2.8	11.2	14.6	5.4	4.9	1.2	5.8	2.7	1.4	13.0	7.2
27.....	5.0	2.8	15.8	12.5	10.6	4.7	1.2	5.2	2.3	1.3	12.0	7.0
28.....	4.6	2.7	18.5	10.8	11.9	4.3	1.2	4.5	2.1	1.3	10.0	7.0
29.....	4.0		15.9	9.0	14.6	4.6	1.2	4.0	2.1	1.2	8.8	8.2
30.....	3.5		13.4	7.2	14.8	4.3	1.3	3.5	2.2	1.1	7.0	11.5
31.....	3.3		11.1		14.0		1.5	3.7		1.0		10.3
<b>Means.</b>	<b>5.6</b>	<b>2.9</b>	<b>11.0</b>	<b>12.3</b>	<b>6.7</b>	<b>6.2</b>	<b>2.2</b>	<b>2.8</b>	<b>3.8</b>	<b>1.7</b>	<b>4.3</b>	<b>9.3</b>



## OHIO RIVER SYSTEM—ALLEGHENY RIVER, FREEPORT, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	9.0	6.6	28.8	8.8	4.7	3.4	14.4	8.3	1.6	1.6	2.2	3.7
2.....	7.4	6.5	26.8	8.8	4.9	3.0	13.0	7.1	1.6	1.5	2.2	3.5
3.....	6.7	6.2	23.9	8.5	4.8	2.7	10.2	6.7	1.6	1.8	2.1	3.5
4.....	6.5	5.8	19.7	8.0	5.0	2.4	20.0	6.0	1.7	2.3	1.9	4.0
5.....	6.0	5.5	16.2	8.0	5.8	2.3	16.2	5.4	1.7	2.8	1.8	5.0
6.....	5.0	5.4	14.0	8.2	6.3	2.7	12.9	5.0	1.6	3.0	1.8	5.0
7.....	4.0	5.3	10.7	9.3	7.0	2.7	11.0	4.8	1.6	2.7	1.7	4.9
8.....	3.9	5.0	9.5	11.0	6.9	2.5	11.0	4.6	1.6	2.8	1.7	4.7
9.....	3.9	5.0	9.8	15.9	6.6	2.3	11.5	4.3	1.6	3.4	1.7	4.5
10.....	3.8	4.9	11.6	19.0	6.4	2.3	11.5	4.0	1.7	3.6	1.6	4.3
11.....	3.7	4.9	11.7	16.8	6.0	2.2	15.8	3.4	1.7	3.4	1.5	4.3
12.....	3.7	4.9	11.5	14.6	5.0	2.4	13.6	4.2	1.7	3.4	1.5	7.0
13.....	3.6	4.8	12.9	12.8	4.8	2.7	10.3	4.5	1.8	5.3	1.4	9.0
14.....	3.5	4.5	16.3	11.0	4.7	2.9	8.4	4.0	1.7	3.5	1.4	8.9
15.....	3.3	4.4	16.7	10.0	4.4	2.9	7.0	3.4	1.6	3.2	1.3	6.7
16.....	3.3	4.4	12.7	8.9	4.2	2.7	5.7	2.8	1.5	3.0	1.3	6.2
17.....	3.2	4.4	12.5	8.0	4.0	3.1	5.0	2.7	1.4	4.0	1.3	10.9
18.....	3.0	4.3	13.0	7.5	3.9	5.4	4.7	2.6	1.3	4.0	1.3	11.0
19.....	3.0	4.3	11.3	7.0	3.9	4.7	4.9	2.4	1.3	3.2	1.3	9.0
20.....	2.9	4.3	9.8	6.8	3.9	4.4	6.0	2.4	1.2	2.8	1.3	7.0
21.....	3.0	4.3	8.8	6.5	3.9	3.7	6.9	2.6	1.2	2.7	1.4	7.3
22.....	3.3	4.4	8.2	6.0	4.1	3.5	11.3	2.3	1.2	2.7	2.0	11.0
23.....	3.5	4.5	7.1	5.8	4.2	3.3	12.0	2.3	1.0	2.6	2.1	14.7
24.....	3.5	4.5	6.7	5.2	4.1	3.3	11.0	2.3	0.9	2.6	1.9	13.4
25.....	3.5	5.1	6.5	4.8	4.1	3.1	9.8	2.2	0.9	2.5	2.0	11.0
26.....	3.7	5.4	6.2	4.8	4.4	4.1	11.6	2.2	0.9	2.3	2.1	8.3
27.....	3.9	11.0	5.8	4.6	4.8	5.2	10.4	2.1	1.1	2.2	2.3	7.0
28.....	8.3	12.9	5.6	4.3	5.7	4.7	8.8	2.0	1.3	2.0	3.0	6.7
29.....	7.0		6.6	4.0	5.5	4.3	8.7	1.8	1.8	1.9	3.8	6.0
30.....	6.8		8.7	4.1	4.8	6.7	9.0	1.7	1.6	1.9	3.7	6.6
31.....	6.7		8.9		4.0		9.1	1.6		1.9		8.0
Means.....	4.6	5.5	12.2	8.6	4.9	3.4	10.4	3.6	1.4	2.8	1.9	7.2
<b>1903</b>												
1.....	Frozen.	15.5	23.0	7.6	4.0	2.9	6.4	5.3	9.4	2.3	1.6	4.7
2.....		13.0	20.3	7.4	3.5	2.8	5.2	4.8	8.7	2.1	1.6	4.6
3.....		13.0	15.2	7.0	3.2	2.6	4.8	4.0	8.0	1.9	1.6	4.8
4.....	12.0	17.3	13.1	6.9	3.0	2.4	4.0	3.4	7.0	1.9	1.5	4.7
5.....	9.0	23.5	11.0	12.0	2.8	1.9	3.8	3.0	5.0	2.4	1.6	4.5
6.....	8.4	19.5	10.8	11.0	2.8	1.5	8.5	2.8	4.6	2.8	1.6	4.5
7.....	7.8	15.4	11.0	10.1	2.8	1.6	8.0	2.9	4.0	3.3	1.7	4.3
8.....	7.5	12.7	11.9	8.9	2.7	1.7	6.7	3.8	3.1	4.6	1.8	4.4
9.....	7.0	13.3	18.0	8.0	2.7	1.8	5.0	4.0	3.2	9.0	1.9	4.4
10.....	6.8	9.2	19.3	8.4	2.6	2.3	4.3	4.1	4.5	10.0	2.0	4.5
11.....	6.5	8.0	17.6	8.0	2.5	2.2	3.7	3.7	4.3	8.8	1.9	4.2
12.....	5.0	8.8	18.5	7.3	2.5	2.2	3.0	3.0	4.0	7.0	1.8	4.3
13.....	4.7	11.0	16.0	9.3	2.4	2.2	3.0	2.7	4.6	6.3	1.7	4.0
14.....	Frozen.	9.0	13.7	10.8	2.4	2.7	3.0	2.6	5.0	5.4	1.7	3.5
15.....		9.8	11.9	12.5	2.3	3.5	3.0	2.5	4.3	4.7	1.7	3.0
16.....		11.5	10.2	13.0	2.3	4.7	2.8	2.4	3.4	4.0	1.7	3.2
17.....		12.4	9.0	12.8	2.2	4.5	2.7	2.1	3.0	4.0	4.8	3.5
18.....		10.0	8.7	9.0	2.0	3.8	2.8	1.9	4.0	4.2	15.7	3.7
19.....		7.4	8.0	7.0	1.9	3.0	5.0	1.5	4.3	4.7	13.1	3.8
20.....		6.0	7.2	6.8	1.7	2.8	8.0	1.4	4.2	4.8	10.5	4.3
21.....		4.5	7.0	6.7	1.7	2.7	9.0	1.6	4.0	4.7	8.9	5.2
22.....		4.0	7.2	6.5	1.6	3.0	8.3	2.5	3.6	4.5	7.0	4.9
23.....		3.8	8.8	6.3	1.6	4.7	7.0	2.4	3.0	3.6	6.8	6.3
24.....		3.8	13.7	6.0	2.7	11.8	6.3	2.2	2.8	3.1	6.7	6.1
25.....		4.0	13.0	5.4	3.0	9.7	5.8	2.0	2.7	3.0	6.3	6.5
26.....		4.0	11.5	5.0	2.9	7.8	5.3	2.0	2.6	2.8	5.7	6.0
27.....		3.9	9.3	4.7	2.7	6.5	4.5	2.5	2.6	2.2	5.0	Frozen.
28.....		9.0	8.9	4.6	2.7	5.2	4.0	7.0	2.6	1.8	4.8	5.8
29.....	9.0		8.0	4.5	2.6	6.0	3.2	10.7	2.5	1.7	4.6	8.8
30.....	13.3		7.0	4.3	2.7	7.0	3.0	7.0	2.4	1.7	4.6	8.7
31.....	19.7		7.1		2.9		3.1	10.5		1.6		8.2
Means.....		10.1	12.1	7.9	2.6	3.9	4.9	3.6	4.2	4.0	4.4	5.0

## OHIO RIVER SYSTEM—ALLEGHENY RIVER, FREEPORT, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	7.7	7.8	18.3	14.8	9.0	10.0	3.4	2.9	1.8	2.8	2.9	1.0
2.....	7.0	7.2	16.5	25.6	9.6	11.0	3.6	2.7	1.8	2.6	2.6	1.0
3.....	6.7	6.9	17.6	18.5	9.0	11.0	3.6	2.8	1.7	2.7	2.2	1.1
4.....	6.5	6.5	27.9	15.0	7.8	10.5	3.1	2.7	1.7	2.5	2.1	1.5
5.....	6.0	5.5	18.0	12.5	7.0	8.7	3.0	2.5	1.5	2.4	2.0	1.7
6.....	5.5	5.3	14.1	8.7	6.7	7.3	3.1	2.4	1.6	2.3	1.9	1.6
7.....	5.2	6.1	15.0	9.1	6.3	6.9	6.7	2.3	2.5	2.2	1.8	1.5
8.....	5.3	18.0	23.9	9.0	5.3	6.7	11.0	2.2	2.2	2.1	1.8	1.3
9.....	5.3	18.6	20.0	9.6	4.9	6.0	9.0	2.1	1.9	2.1	1.8	1.3
10.....	5.2	13.0	17.0	9.8	4.8	5.7	9.3	1.9	1.9	1.8	1.7	1.5
11.....	5.2	11.0	13.4	11.0	4.7	5.2	13.0	1.8	1.5	1.7	1.7	1.3
12.....	5.1	9.2	12.0	10.9	4.6	5.0	12.0	1.8	1.7	1.7	1.6	1.3
13.....	5.0	8.5	10.7	10.0	4.5	4.9	9.8	1.5	1.5	1.8	1.6	Frozen.
14.....	5.0	8.3	8.9	9.0	4.3	4.5	9.0	1.4	1.3	3.5	1.5	.....
15.....	5.0	8.0	8.3	8.8	4.5	4.3	8.0	1.5	1.3	3.1	1.5	.....
16.....	5.0	7.0	7.1	8.0	4.8	4.0	7.0	1.4	1.2	3.1	1.5	.....
17.....	4.9	6.2	6.7	7.3	4.9	4.5	5.4	1.3	1.1	2.9	1.4	.....
18.....	4.9	5.0	6.0	7.0	5.0	4.2	4.8	1.3	1.0	2.8	1.4	.....
19.....	4.8	4.5	6.4	6.9	6.1	3.4	3.9	1.3	1.0	2.6	1.4	.....
20.....	4.8	Frozen.	7.0	6.8	10.6	3.0	3.4	1.3	1.0	2.6	1.3	.....
21.....	4.9	.....	9.0	6.7	11.0	3.1	3.0	1.4	1.1	2.4	1.3	.....
22.....	21.0	6.0	9.0	6.4	9.0	4.3	2.9	1.5	1.0	2.3	1.2	.....
23.....	20.7	7.3	10.0	5.9	8.5	4.9	2.9	2.5	0.9	2.2	1.2	1.6
24.....	24.9	6.7	15.9	5.4	7.1	4.8	3.1	3.0	0.9	2.0	1.2	1.8
25.....	18.5	7.1	14.8	5.2	8.5	4.0	2.9	3.4	1.0	3.2	1.2	8.0
26.....	14.8	6.8	14.1	5.8	9.0	3.2	2.8	2.8	1.0	4.8	1.1	7.2
27.....	11.0	6.0	18.4	8.5	8.8	2.9	2.7	2.7	1.1	4.8	1.1	7.8
28.....	8.8	5.4	17.4	10.7	11.0	2.8	2.7	2.7	3.0	4.0	1.1	11.0
29.....	8.5	6.5	14.7	11.1	11.3	3.0	2.9	2.5	3.2	3.7	1.1	14.0
30.....	8.4	.....	12.0	11.0	10.0	3.0	3.0	2.3	3.0	3.5	1.0	11.0
31.....	8.2	.....	10.0	.....	9.0	.....	3.0	2.0	.....	3.2	.....	8.9
Means.	8.7	7.9	13.6	9.8	7.3	5.4	5.3	2.1	1.6	2.8	1.6	4.1

## OHIO RIVER SYSTEM—ALLEGHENY RIVER, HERRS ISLAND DAM (PITTSBURG), PA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	3.5	3.4	7.9	8.8	4.6	6.8	6.1	6.6	6.1	5.8	5.4	14.2
2.....	3.1	3.0	16.6	8.2	4.2	6.6	5.9	5.5	6.4	6.0	5.8	12.2
3.....	3.0	2.8	14.0	7.7	3.9	6.6	6.5	5.1	6.3	6.0	6.0	10.6
4.....	2.8	3.0	11.3	8.1	3.8	6.9	6.0	6.1	6.1	6.1	6.4	9.0
5.....	3.2	3.7	9.7	8.8	3.6	7.0	6.0	5.8	5.7	6.1	6.5	11.5
6.....	3.5	5.5	10.1	9.0	3.3	6.7	6.6	5.7	5.9	6.1	6.5	15.2
7.....	3.6	7.3	16.0	8.5	3.2	6.4	6.2	5.7	6.1	5.9	6.4	13.6
8.....	3.9	7.6	16.7	8.8	3.1	5.7	7.0	5.6	6.0	6.0	6.3	11.6
9.....	4.0	17.8	13.5	10.2	2.9	6.4	7.1	5.4	6.2	5.9	6.4	10.2
10.....	4.4	19.1	12.3	10.4	2.7	6.5	5.4	5.4	6.3	5.8	6.3	9.4
11.....	6.0	15.8	11.6	9.5	2.7	6.8	5.7	5.7	6.0	6.4	6.3	8.6
12.....	10.5	13.3	10.7	8.5	3.8	6.5	6.4	5.9	5.9	6.3	6.5	7.0
13.....	14.8	12.1	9.5	7.9	5.4	6.3	6.6	6.0	6.1	6.3	6.5	6.7
14.....	11.6	15.0	8.7	7.3	7.0	6.4	7.2	5.9	6.0	6.5	6.6	5.9
15.....	10.3	16.0	8.2	7.0	7.0	7.1	6.4	5.5	5.7	6.1	6.6	5.4
16.....	9.3	13.5	7.4	6.5	6.6	7.3	5.4	5.7	5.6	6.1	6.5	4.6
17.....	9.4	11.0	6.0	6.1	6.0	5.7	6.4	6.2	5.4	6.1	6.3	3.7
18.....	10.8	9.4	5.6	6.0	6.1	8.0	6.2	6.3	5.4	6.1	6.1	3.6
19.....	10.8	7.6	5.6	6.6	6.2	7.1	5.9	6.2	5.6	6.1	6.1	3.7
20.....	12.2	6.2	9.3	8.5	6.1	5.5	6.5	6.5	5.8	6.0	6.5	4.5
21.....	13.7	4.9	14.9	9.1	7.0	4.0	6.6	6.5	5.9	5.9	6.4	4.4
22.....	20.4	6.0	14.0	8.4	6.6	3.1	6.2	6.0	6.0	5.9	8.3	4.3
23.....	17.0	10.0	11.5	7.8	6.5	3.6	5.6	6.6	6.0	5.9	9.4	4.2
24.....	14.3	13.5	10.3	7.8	6.1	3.1	6.7	6.3	6.0	6.3	8.8	4.4
25.....	12.3	12.2	10.6	8.6	6.3	5.4	6.2	6.4	6.0	6.4	8.5	4.5
26.....	10.8	10.0	11.0	7.9	5.9	5.8	6.2	7.0	5.9	6.2	13.7	4.5
27.....	9.6	8.0	10.5	7.0	6.1	6.2	7.5	6.6	5.9	6.2	28.1	4.3
28.....	8.3	6.6	10.1	6.2	6.3	6.2	7.2	6.5	5.8	5.1	22.9	4.7
29.....	7.0	.....	9.2	5.5	6.2	5.4	6.9	6.2	5.8	6.2	17.8	4.2
30.....	6.0	.....	8.3	5.0	6.4	6.4	4.9	6.1	5.8	6.2	15.4	3.8
31.....	4.2	.....	8.2	.....	6.0	.....	7.4	6.3	.....	6.0	.....	4.1
Means.	8.6	9.4	10.6	7.9	5.2	6.1	6.4	6.0	5.9	6.1	8.8	7.1

\* 31.2 at midnight.

## OHIO RIVER SYSTEM—ALLEGHENY RIVER, FIERES ISLAND DAM (PITTSBURG), PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	3.9	4.4	2.7	12.0	8.9	13.6	4.6	5.9	6.0	6.3	6.0	6.4
2.....	4.1	3.7	2.7	10.4	7.7	11.6	3.7	6.5	6.0	6.6	6.0	5.8
3.....	4.2	3.6	3.4	10.0	7.2	10.3	3.0	6.5	7.8	6.6	6.0	6.0
4.....	3.7	4.0	5.7	15.0	7.4	9.6	2.8	6.3	7.7	6.4	5.9	8.1
5.....	3.0	4.4	12.5	17.6	7.9	8.8	2.9	6.1	7.1	6.2	5.8	11.1
6.....	2.6	6.0	10.6	18.5	7.5	7.6	3.3	6.0	5.9	6.3	5.9	8.8
7.....	2.8	5.4	9.3	21.6	6.5	7.2	3.4	5.9	6.8	6.2	5.9	7.0
8.....	2.9	4.5	7.5	21.8	5.9	8.7	3.1	5.8	6.3	6.0	5.9	6.0
9.....	3.1	4.4	7.5	18.7	5.8	8.3	2.9	6.0	5.6	6.1	5.8	5.5
10.....	3.9	4.2	14.6	16.0	6.1	7.6	2.7	6.1	5.6	6.1	5.9	6.0
11.....	8.3	3.9	18.3	14.0	8.9	6.5	2.4	6.2	5.8	6.0	5.9	10.9
12.....	14.7	4.1	20.9	12.5	8.9	5.8	2.1	6.1	6.1	5.8	6.0	14.1
13.....	15.7	3.9	19.1	11.6	8.1	5.2	1.8	6.0	6.2	5.8	6.1	11.8
14.....	14.7	3.3	17.8	10.6	7.6	5.1	1.5	6.2	6.6	5.8	5.4	10.0
15.....	12.5	3.1	17.0	11.0	7.1	5.2	1.3	6.2	6.9	5.8	8.1	15.3
16.....	11.0	3.2	15.3	12.2	6.3	5.5	1.9	6.3	6.7	6.0	7.5	28.0
17.....	10.2	3.2	13.5	11.3	5.6	5.7	4.0	6.6	8.0	5.9	6.2	21.5
18.....	9.5	3.1	12.0	9.8	5.2	5.5	7.6	6.8	7.1	5.8	6.4	16.1
19.....	8.9	3.2	10.7	9.5	5.2	5.3	6.7	6.8	7.2	5.9	6.9	12.5
20.....	7.0	3.4	11.1	19.2	4.6	5.2	5.9	6.5	6.5	5.8	6.6	9.6
21.....	5.9	3.3	13.9	28.6	4.5	5.3	5.5	6.9	5.5	5.7	6.4	8.6
22.....	6.0	3.1	15.8	24.3	4.3	5.4	5.7	6.7	4.7	6.0	6.3	7.3
23.....	6.6	2.9	15.5	21.3	4.8	5.4	5.9	6.0	4.7	6.4	6.3	6.4
24.....	7.3	3.0	13.7	19.9	6.4	6.7	5.5	6.4	6.1	6.3	6.4	5.7
25.....	7.5	2.5	12.7	19.4	6.9	6.2	6.2	6.9	6.2	6.2	8.2	6.4
26.....	7.2	2.7	13.0	18.2	6.5	5.5	6.2	7.9	6.1	6.0	13.5	6.3
27.....	7.0	2.8	17.0	16.0	12.8	5.2	6.0	7.2	6.2	6.0	12.4	8.3
28.....	6.7	2.8	20.4	13.8	16.5	5.5	5.5	6.4	5.8	5.7	10.3	10.6
29.....	6.0		18.9	11.7	18.3	5.0	5.4	6.1	6.0	5.8	8.4	11.2
30.....	4.9		16.4	10.1	17.7	5.5	5.8	6.0	6.1	5.8	7.2	17.0
31.....	4.4		14.0		16.5		6.5	6.6		5.9		16.2
<b>Means.</b>	<b>7.0</b>	<b>3.6</b>	<b>13.0</b>	<b>15.6</b>	<b>8.2</b>	<b>6.8</b>	<b>4.2</b>	<b>6.4</b>	<b>6.3</b>	<b>6.0</b>	<b>7.0</b>	<b>10.5</b>
<b>1902</b>												
1.....	11.9	8.8	31.0	9.8	4.6	6.2	13.7	8.6	6.0	5.9	6.3	4.3
2.....	9.0	8.0	33.7	9.8	5.9	5.9	16.8	8.0	6.0	5.5	6.4	3.9
3.....	7.3	7.9	27.1	9.3	5.9	6.1	12.0	7.1	6.1	6.1	6.5	5.8
4.....	6.7	7.5	22.0	8.9	6.2	6.0	18.6	6.4	6.0	7.0	6.3	5.9
5.....	5.7	5.9	17.8	9.2	6.0	6.2	17.8	6.0	5.9	6.4	6.3	6.7
6.....	4.4	4.6	14.1	9.9	5.9	6.2	13.7	5.2	5.7	6.7	6.2	6.6
7.....	3.9	4.4	11.4	10.5	7.0	6.5	11.6	4.8	6.0	6.5	6.2	6.3
8.....	4.5	4.4	10.1	13.5	6.5	6.6	10.6	5.5	6.1	6.2	5.9	5.6
9.....	4.5	3.9	10.4	17.3	6.3	6.3	11.0	6.2	6.0	6.7	5.9	5.2
10.....	4.6	3.5	15.1	22.2	6.0	6.1	11.3	6.4	6.0	6.7	6.0	4.7
11.....	4.3	3.5	15.8	21.1	5.4	5.8	16.5	6.2	6.0	6.6	6.0	4.1
12.....	4.1	3.4	14.4	19.8	4.8	6.4	13.6	6.6	6.0	7.2	6.1	9.3
13.....	3.4	3.3	15.1	18.8	5.3	6.4	10.9	6.8	6.0	8.4	6.0	16.9
14.....	2.0	3.3	18.4	15.4	6.0	6.5	8.7	6.5	6.1	6.1	5.9	17.2
15.....	1.8	3.0	17.4	12.6	6.5	6.6	7.2	6.0	6.1	4.9	6.0	13.0
16.....	2.4	3.0	14.6	10.5	5.9	6.5	5.9	5.9	5.9	4.1	6.1	10.0
17.....	2.5	2.9	13.7	9.4	6.7	6.3	5.1	6.0	5.8	5.0	6.1	17.3
18.....	2.5	2.8	14.8	8.6	6.4	7.2	5.2	5.7	5.6	6.8	6.0	16.4
19.....	2.9	2.8	13.1	7.9	5.9	6.9	6.3	6.2	5.8	5.9	6.1	12.4
20.....	2.8	2.5	10.9	7.3	6.8	6.0	7.4	6.2	6.0	6.1	6.1	10.0
21.....	2.8	2.4	9.5	6.7	6.8	6.5	8.1	6.3	6.1	5.2	6.3	9.0
22.....	2.6	2.5	8.5	6.3	6.8	6.0	10.9	6.1	6.1	5.9	6.3	10.3
23.....	2.3	2.6	7.9	6.0	6.8	6.6	11.7	6.1	6.1	6.4	6.0	15.9
24.....	2.4	3.5	7.3	5.6	6.5	6.8	11.2	6.1	6.0	6.0	5.9	14.8
25.....	3.4	5.7	6.8	5.2	6.4	6.4	9.7	5.8	5.9	6.2	5.8	12.3
26.....	3.4	7.1	6.3	4.7	6.8	6.6	11.1	6.3	6.1	6.2	5.5	10.5
27.....	4.4	11.8	5.8	4.4	7.3	6.8	10.7	6.0	6.3	5.9	8.5	8.5
28.....	16.4	13.6	5.6	4.0	8.1	6.8	8.8	6.1	6.4	5.8	7.0	7.0
29.....	13.3		6.6	4.0	8.3	7.1	8.6	6.1	6.6	6.0	5.5	6.1
30.....	8.7		8.1	4.1	7.2	7.1	8.4	6.1	6.5	6.0	4.9	6.0
31.....	7.9		9.5		6.2		9.8	6.1		6.3		8.0
<b>Means.</b>	<b>5.1</b>	<b>5.0</b>	<b>13.6</b>	<b>10.1</b>	<b>6.4</b>	<b>6.4</b>	<b>10.7</b>	<b>6.2</b>	<b>6.0</b>	<b>6.2</b>	<b>6.1</b>	<b>9.4</b>

## OHIO RIVER SYSTEM ALLEGHENY RIVER, HERRIS ISLAND DAM (PITTSBURG), PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1	0.6	18.2	28.6	8.2	3.7	5.2	8.6	6.7	10.0	6.0	6.2	4.5
2	5.2	15.0	26.7	8.2	3.4	5.6	6.9	6.3	8.2	6.2	6.3	4.2
3	5.6	15.8	19.4	7.6	3.8	4.6	5.4	6.5	7.0	6.1	6.1	5.1
4	15.5	20.0	15.0	7.2	4.9	6.3	4.5	5.6	5.7	6.2	6.0	5.0
5	15.8	26.0	12.4	11.6	6.0	6.2	4.0	5.8	4.6	6.5	6.1	2.5
6	13.0	23.5	11.3	12.0	6.4	6.0	8.1	5.7	5.9	6.0	6.0	3.5
7	10.6	18.5	11.6	10.7	6.5	6.0	9.1	6.3	5.5	6.4	6.2	4.0
8	9.2	14.1	12.9	9.3	6.2	5.9	6.9	6.0	6.1	6.7	6.4	4.2
9	7.8	12.5	19.4	11.7	5.7	7.3	5.4	6.7	6.2	8.0	6.3	4.3
10	0.4	10.6	22.2	13.2	6.2	6.8	4.3	6.3	7.0	9.7	6.4	4.0
11	0.0	8.9	19.9	10.7	6.0	5.2	3.8	6.2	6.7	8.5	6.4	5.1
12	4.7	8.8	20.2	9.3	5.8	6.4	3.5	6.1	6.4	7.0	6.4	4.7
13	7.1	11.5	17.2	11.5	6.0	6.4	3.8	5.8	6.7	5.8	6.3	4.6
14	6.3	12.2	14.7	11.9	5.9	6.3	5.3	6.0	6.7	4.8	6.3	5.1
15	5.0	11.6	12.5	13.1	5.7	6.3	5.4	5.7	6.3	6.0	6.1	4.6
16	5.2	14.0	11.0	13.7	5.6	7.0	4.4	6.1	6.3	6.4	6.2	4.8
17	5.8	21.0	9.5	14.8	6.0	6.1	5.2	5.9	5.9	6.2	7.5	5.9
18	5.5	15.0	8.7	13.1	5.9	4.8	5.1	5.7	6.8	6.4	14.8	6.2
19	5.5	10.0	8.2	11.2	6.1	5.6	6.3	5.7	6.1	6.7	13.7	5.8
20	4.7	7.0	7.7	9.6	6.1	5.9	7.3	5.7	6.6	7.0	10.9	6.2
21	4.2	6.3	7.2	8.3	6.1	5.6	8.7	6.0	6.4	6.8	8.8	3.4
22	4.5	6.5	7.7	7.2	6.2	7.0	8.6	6.3	6.5	6.5	7.5	5.2
23	5.1	5.9	9.7	6.5	6.3	6.8	7.3	6.3	5.9	6.3	6.5	6.4
24	5.0	6.2	10.4	5.9	6.4	11.3	6.2	6.1	6.4	5.9	6.5	6.0
25	4.7	6.3	18.0	5.4	6.4	11.2	5.4	6.0	6.0	6.4	5.1	5.9
26	3.9	6.1	14.2	5.1	6.8	8.5	4.6	6.2	6.3	6.3	5.3	6.5
27	4.0	5.9	11.2	4.7	5.6	6.8	6.5	6.0	6.2	6.2	6.8	7.0
28	4.9	8.8	9.7	4.6	6.9	5.7	6.4	7.9	6.3	6.4	6.0	7.0
29	8.0		8.5	4.3	4.8	5.8	5.9	10.5	6.1	6.2	5.6	5.1
30	15.5		7.5	3.9	4.6	9.1	6.1	6.8	5.9	6.2	4.8	4.1
31	23.3		8.3		5.0		6.0	9.7		6.0		4.1
Means.	7.6	12.4	13.8	9.2	5.7	6.6	6.0	6.4	6.4	6.5	7.0	5.0
<b>1904</b>												
1	3.8	7.2	18.0	12.6	12.4	8.6	6.4	6.3	5.7	6.7	6.0	6.0
2	3.5	6.0	19.1	25.7	11.5	10.4	5.7	5.9	5.9	6.7	6.4	5.9
3	3.4	5.4	16.5	20.4	9.8	10.5	5.7	6.2	5.8	6.8	6.2	6.0
4	3.5	4.6	20.1	15.8	8.4	9.5	6.0	6.5	6.3	6.5	6.4	6.3
5	4.1	4.1	21.3	12.8	7.3	8.1	5.1	6.1	6.0	6.5	6.4	6.4
6	4.2	3.0	15.2	10.8	6.5	6.9	6.3	5.3	6.0	6.3	6.3	5.9
7	3.4	3.9	15.8	9.5	5.7	6.8	7.0	5.9	6.3	6.3	6.3	5.7
8	3.0	10.0	25.1	8.7	5.2	6.5	11.4	5.7	6.3	6.1	6.1	5.7
9	3.2	22.0	22.4	8.3	4.7	5.9	9.1	5.7	6.2	6.0	6.2	5.9
10	3.2	16.1	17.0	9.0	4.3	5.7	8.0	5.8	6.0	5.9	6.2	5.9
11	3.0	13.0	14.3	10.8	4.0	5.3	12.0	5.9	6.0	6.4	6.1	5.2
12	2.9	11.2	12.5	10.5	4.0	4.9	11.2	5.7	6.1	6.3	6.1	4.5
13	2.8	9.3	10.8	9.7	5.7	4.3	9.5	5.8	6.2	6.4	6.0	4.7
14	2.8	7.9	9.0	9.2	4.8	6.5	8.1	6.2	6.0	6.1	6.2	5.2
15	2.8	7.0	8.3	8.4	6.2	5.9	7.4	6.2	6.0	6.7	6.0	4.4
16	2.7	6.0	7.5	7.6	6.1	6.1	6.1	6.2	5.7	6.9	6.0	4.5
17	2.5	5.0	6.8	7.1	7.2	6.7	4.9	6.0	5.5	6.8	5.8	4.6
18	2.8	3.8	6.1	7.1	7.1	6.2	4.0	6.1	5.9	6.5	6.0	4.6
19	2.7	2.0	6.2	6.8	5.1	5.9	5.6	5.9	6.0	6.2	5.8	4.7
20	3.3	2.1	7.0	6.5	11.5	5.7	5.9	5.9	6.0	6.0	5.9	5.0
21	4.5	2.4	9.3	6.2	11.9	5.9	6.0	5.7	6.0	6.2	5.9	5.0
22	9.4	4.8	9.5	5.8	10.3	5.6	5.7	6.2	5.9	6.3	5.7	5.0
23	30.9	8.2	10.8	5.4	9.1	6.1	5.7	5.8	5.9	6.3	5.4	5.3
24	29.0	8.8	19.2	5.0	7.8	6.7	6.3	6.1	5.8	6.2	5.8	5.8
25	20.9	9.1	17.2	5.0	8.4	6.6	6.5	6.8	6.1	6.1	6.2	6.1
26	15.7	6.7	15.2	5.5	8.8	6.3	5.8	5.0	6.0	7.1	6.1	9.3
27	13.4	5.4	17.6	7.8	8.2	5.2	5.9	6.1	6.1	6.8	6.0	9.1
28	10.7	5.0	17.8	12.5	10.4	5.6	5.7	6.1	6.3	6.3	6.1	11.5
29	8.7	6.7	15.2	13.9	9.6	5.2	5.1	6.1	7.0	6.3	6.0	14.1
30	8.0		12.5	13.0	8.0	5.3	6.2	5.6	7.0	6.5	6.0	11.5
31	7.6		10.7		7.1		6.3	6.0		6.4		8.8
Means	7.2	7.3	14.3	9.9	7.7	6.5	6.8	6.0	6.1	6.4	6.1	6.4

## DESCRIPTION OF RIVER GAGES, ETC.

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## OHIO RIVER SYSTEM—TYGARTS VALLEY RIVER, PHILIPPI, W. VA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....							6.0	1.4	-0.6	-2.4	-0.9	
2.....							3.1	1.2	-0.9	-2.4	-0.9	
3.....							1.4	0.7	-0.9	-2.4	-0.9	
4.....							1.2	0.7	-0.9	-2.4	-0.9	
5.....							1.0	0.7	-1.1	-2.4	-1.0	
6.....							0.9	0.5	-1.2	-2.4	-1.0	
7.....							0.7	0.4	-1.2	-2.4	-1.0	
8.....							0.7	0.1	-1.2	-2.4	-1.0	
9.....							0.7	-0.2	-1.4	-2.2	-1.1	
10.....							0.8	-0.2	-1.4	-2.2	-1.1	
11.....							0.7	-0.4	-1.6	-2.1	-1.2	
12.....							0.5	-0.4	-1.6	-2.0	-1.2	
13.....							0.6	-0.6	-1.8	-2.0	-1.1	
14.....							0.6	-0.6	-1.8	-2.0	-1.1	
15.....							0.6	-0.6	-1.8	-2.0	-1.1	
16.....							0.4	-0.6	-1.8	-1.8	-0.9	
17.....							0.2	-0.9	-2.0	-1.8	-0.9	
18.....							0.2	-0.9	-2.0	-1.8	-0.9	
19.....							0.2	-0.9	-2.0	-1.6	-0.9	
20.....							0.1	-0.9	-2.2	-1.6	-0.9	
21.....							0.1	-0.9	-2.2	-1.6	-0.9	
22.....							0.1	-0.9	-2.2	-1.6	2.0	
23.....							0.1	-0.9	-2.2	-1.6	2.3	
24.....							0.1	-0.9	-2.2	-1.6	2.3	
25.....							0.1	-0.6	-2.2	-1.6	2.8	
26.....							0.1	-0.6	-2.2	-1.6	16.0	
27.....							8.4	-0.6	-2.2	-0.6	14.9	
28.....							4.6	-0.6	-2.3	-0.6	6.0	
29.....							2.2	-0.6	-2.3	-0.8	3.7	
30.....							2.2	-0.6	-2.4	-0.8	3.0	
31.....							2.0	-0.6		-0.8		
<b>Means.</b>							1.3	-0.3	-1.7	-1.8	1.1	
<b>1901</b>												
1.....						3.6	2.0	-1.2	-0.6	-1.0		
2.....						2.6	1.1	-1.2	-0.2	-1.1		
3.....						2.0	0.8	-1.2	-0.2	-1.2		
4.....						1.8	0.8	-1.2	-0.3	-1.2		
5.....						1.8	0.5	-1.2	-0.4	-1.2		
6.....						1.1	0.7	-1.2	-0.4	-1.1		
7.....						1.8	0.7	-1.2	-0.4	-1.1		
8.....						7.9	1.8	-1.2	-0.5	-1.2		
9.....						4.1	2.1	-1.2	-0.5	-1.2		
10.....						2.8	1.8	-1.2	-1.1	-1.2		
11.....						1.8	1.0	-1.1	-1.1	-1.2		
12.....						1.2	0.5	-1.2	-1.2	-1.2		
13.....						0.8	0.2	-1.2	-0.4	-1.3		
14.....						2.1	-0.2	-1.2	-0.8	-1.3		
15.....						1.8	-0.2	-1.2	-0.8	-1.3		
16.....						1.7	-0.2	-1.2	-0.8	-1.3		
17.....						1.2	-0.2	-1.2	-0.8	-1.3		
18.....						6.8	-0.2	-1.2	-0.5	-1.5		
19.....						6.9	0.8	-1.1	1.0	-1.5		
20.....						3.7	0.5	-1.1	0.4	-1.5		
21.....						2.0	0.0	-1.1	0.0	-1.5		
22.....						1.1	-0.2	-0.5	-0.2	-1.5		
23.....						1.0	-0.5	-0.3	-0.3	-1.5		
24.....						2.1	-0.6	-0.3	-0.7	-1.5		
25.....						3.0	-0.7	-0.2	-0.8	-1.5		
26.....						2.1	-1.0	0.8	-0.8	-1.5		
27.....						3.0	-1.0	0.0	-0.9	-1.5		
28.....						2.8	-1.1	-0.2	-0.9	-1.5		
29.....						4.0	-1.1	-0.3	-1.0	-1.5		
30.....						4.0	-1.1	-0.5	-1.0	-1.5		
31.....							-1.2	-0.5		-1.5		
<b>Means.</b>						2.8	0.2	-0.9	-0.5	-1.3		

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—CHEAT RIVER, ROWLESBURG, W. VA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	Frozen.	Frozen.	3.8	4.6	3.0	2.2	3.0	3.5	1.2	1.0	1.2	3.0
2.....			6.0	4.0	3.0	2.4	3.0	3.2	1.1	2.0	1.0	2.8
3.....			5.0	4.0	3.0	3.0	3.0	2.5	1.0	3.0	1.0	3.0
4.....			5.0	4.0	3.0	4.0	2.7	2.5	1.0	2.5	1.0	3.0
5.....			4.6	4.0	3.0	2.4	2.7	2.0	0.8	2.0	1.0	6.0
6.....			4.0	4.0	3.0	2.4	2.5	1.8	0.4	1.8	1.0	4.5
7.....			7.0	4.0	3.0	3.0	2.2	1.4	0.2	1.4	1.0	5.0
8.....		6.0	6.0	4.0	3.0	3.3	2.8	1.2	0.1	1.3	1.2	5.0
9.....		7.0	5.0	4.5	3.0	2.5	3.3	1.0	0.0	2.0	1.4	5.0
10.....		5.0	5.0	5.0	3.5	2.2	2.8	0.5	0.0	2.0	1.4	5.0
11.....		5.0	4.6	4.5	3.8	2.0	2.8	-0.2	-0.2	1.8	1.5	5.0
12.....		4.5	4.3	4.2	3.7	2.0	2.5	-0.5	-0.3	1.6	1.5	5.0
13.....	6.0	4.5	4.3	4.0	3.0	2.0	3.0	-0.6	-0.4	1.4	1.5	5.0
14.....	4.0	7.3	4.3	4.0	3.0	3.5	2.5	-0.2	-0.5	2.5	1.7	4.8
15.....	4.0	5.0	4.3	3.5	3.0	3.5	2.0	-0.2	-0.6	2.4	1.7	4.5
16.....	3.5	5.0	4.3	3.5	2.5	4.0	2.0	-0.2	-0.6	2.4	1.5	4.5
17.....	3.5	4.6	4.3	3.5	2.5	10.0	1.8	-0.4	-0.6	2.0	1.5	4.0
18.....	3.0	4.1	4.3	3.5	2.5	7.8	1.4	0.0	-0.8	2.0	1.5	4.0
19.....	3.5	4.0	4.3	5.0	3.0	7.0	1.2	3.0	-0.8	1.8	1.5	4.0
20.....	3.0	4.0	5.0	4.0	3.3	5.0	2.1	2.0	-1.0	1.4	1.5	4.0
21.....	6.5	4.0	6.5	3.5	3.8	3.9	2.0	2.0	-1.0	1.4	2.0	4.0
22.....	5.0	4.0	5.0	3.2	3.4	3.0	2.8	2.0	-1.2	1.4	2.0	4.0
23.....	4.5	4.0	4.5	3.2	3.0	3.0	2.4	2.3	-0.6	1.4	4.5	4.0
24.....	4.0	3.8	4.5	3.0	3.0	3.0	2.0	3.0	-0.6	1.4	5.0	3.8
25.....	4.0	Frozen.	4.0	3.0	2.2	2.5	2.0	3.0	-0.4	1.4	5.0	3.8
26.....	3.6		4.0	3.0	2.2	2.5	3.5	3.0	-0.6	1.8	11.0	3.7
27.....	4.0		5.0	3.0	2.6	2.5	6.0	2.8	-0.8	1.6	8.0	3.4
28.....	3.7		4.5	3.0	2.2	2.5	4.8	2.0	-0.8	1.4	4.0	3.4
29.....	3.5		4.5	3.0	2.2	4.6	3.9	1.6	-0.9	1.2	3.0	3.3
30.....	Frozen.		5.0	3.0	2.2	4.0	3.5	1.2	0.2	1.2	3.0	3.3
31.....			5.0		2.2		5.0	1.4		1.2		3.3
Means.	4.1	4.8	4.8	3.8	2.9	3.5	2.8	1.5	-0.2	1.7	2.5	4.1
<b>1901</b>												
1.....	3.5	Frozen.	Frozen.	5.2	4.5	3.0	3.4	1.0	4.0	1.0	-0.9	2.2
2.....	4.0			4.2	4.3	2.8	3.0	1.6	4.0	0.8	-0.9	2.2
3.....	4.0			3.5	4.0	2.2	2.6	1.4	3.0	0.7	-1.0	3.5
4.....	4.0		6.0	4.2	3.8	2.0	3.8	1.2	2.4	0.6	-1.1	6.0
5.....	Frozen.		7.0	5.0	3.5	2.0	3.2	1.0	1.0	0.6	-1.1	4.5
6.....			5.0	6.5	3.0	1.9	3.0	0.8	0.6	0.7	-1.2	3.5
7.....			4.5	9.0	3.0	2.8	2.8	0.7	0.4	0.6	-1.2	3.0
8.....			4.0	8.0	3.0	4.8	3.8	1.0	1.2	0.4	-1.3	3.0
9.....	4.0		4.0	6.0	3.0	4.0	3.2	1.6	1.0	0.4	-1.3	3.0
10.....	4.0		6.0	5.5	5.5	3.6	2.8	1.4	0.8	0.2	-1.4	3.6
11.....	4.5		8.0	5.0	6.0	3.0	2.6	1.0	1.0	0.2	-1.4	4.6
12.....	5.6		9.0	4.8	6.0	3.2	2.4	0.6	2.0	0.1	-1.4	4.0
13.....	5.0		7.0	4.5	7.2	3.0	2.2	0.4	2.4	0.4	0.6	4.0
14.....	5.0		6.0	4.0	5.0	3.0	2.0	0.2	2.0	0.6	0.2	3.8
15.....	4.0		6.0	6.0	4.0	2.9	1.8	0.4	1.8	0.4	1.0	12.6
16.....	4.0		5.0	5.0	3.8	2.6	2.0	0.4	1.6	0.2	1.2	7.0
17.....	4.0		5.0	4.5	3.7	3.6	5.0	0.4	1.8	0.2	1.0	5.6
18.....	4.0		4.8	4.3	3.5	4.0	4.5	0.4	2.0	0.2	0.9	4.8
19.....	3.5		4.5	4.0	3.0	3.4	4.0	0.2	1.8	0.1	0.9	4.0
20.....	3.0		4.5	6.0	3.0	3.0	3.5	0.2	1.6	0.1	0.8	Frozen.
21.....	Frozen.		4.5	8.0	3.0	2.8	3.0	0.4	1.4	0.1	0.8	
22.....	4.0		4.0	7.5	3.0	2.0	2.8	0.6	1.2	0.0	0.7	
23.....	4.5		4.0	7.0	5.0	2.4	2.6	1.0	1.0	0.0	0.7	
24.....	4.0		4.0	6.5	4.0	4.0	2.4	1.8	0.8	-0.2	1.0	
25.....	4.0		4.0	6.5	4.0	3.8	2.2	4.0	0.6	-0.2	2.0	
26.....	4.0		4.0	7.0	4.0	3.3	2.0	3.4	0.4	-0.4	2.4	6.0
27.....	4.0		5.5	6.5	5.0	3.5	1.8	3.0	0.2	-0.4	2.4	6.6
28.....	4.0		7.0	6.0	4.8	4.0	1.6	2.6	0.0	-0.6	2.2	6.0
29.....	3.5		6.0	5.0	5.0	4.0	1.4	2.4	-0.2	-0.6	2.2	6.4
30.....	3.5		5.5	4.8	5.4	3.8	1.2	2.0	-0.4	-0.8	2.2	7.8
31.....	3.5		5.5		4.5		1.0	1.8		-0.8		6.0
Means.	4.0		5.4	5.7	4.2	3.1	2.7	1.3	1.4	0.1	0.3	4.9

## OHIO RIVER SYSTEM—CHEAT RIVER, ROWLESBURG, W. VA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	5.0	5.0	10.0	5.4	3.2	4.2	6.0	3.0	1.2	2.4	1.6	4.0
2.....	4.0	5.6	7.0	5.0	3.0	4.0	5.6	2.8	1.2	4.5	1.4	3.8
3.....	3.0	5.0	6.0	4.6	2.8	3.8	5.0	2.8	1.4	4.0	1.2	5.0
4.....	2.4	4.6	5.0	4.6	3.4	3.8	5.0	2.6	1.4	3.4	1.0	4.0
5.....	Frozen.	4.0	4.5	5.0	3.2	3.5	4.8	2.5	2.2	3.0	0.9	4.0
6.....		Frozen.	4.0	5.0	3.0	3.3	4.6	2.4	2.0	3.4	0.9	3.8
7.....			4.0	5.4	2.8	3.0	4.3	2.2	1.8	3.2	1.2	3.8
8.....			4.0	5.6	2.8	3.0	4.0	2.2	1.6	2.0	1.8	3.5
9.....			6.0	6.2	2.5	3.0	4.2	2.1	1.4	1.8	1.6	3.0
10.....			6.3	6.2	2.2	2.5	4.6	2.0	1.4	1.8	1.4	2.6
11.....			5.0	6.8	2.0	2.2	4.6	2.0	1.4	1.6	1.3	3.6
12.....			6.0	7.8	2.0	2.0	4.3	2.0	1.2	2.6	1.2	8.0
13.....			7.0	7.4	2.2	1.8	3.0	1.8	1.0	3.8	1.2	7.8
14.....			8.0	7.0	2.0	2.0	2.8	1.8	1.0	3.4	1.1	6.8
15.....			6.0	6.5	1.8	1.8	2.6	1.6	0.9	3.2	1.0	5.0
16.....			5.0	6.0	2.4	1.6	2.4	1.5	0.8	3.0	1.0	8.0
17.....			5.0	5.6	2.2	2.2	2.2	1.4	0.7	2.8	0.9	6.8
18.....			5.0	5.2	2.2	2.2	2.0	1.3	0.6	2.6	0.9	5.0
19.....			4.5	5.0	3.0	2.4	2.0	1.2	0.5	2.6	0.9	4.2
20.....			4.0	4.8	2.8	2.2	2.6	1.1	0.4	2.5	0.8	3.8
21.....			3.5	4.8	2.8	2.6	2.8	1.0	0.3	2.4	0.7	3.6
22.....			3.3	4.6	2.8	4.0	2.6	1.8	0.2	2.2	1.2	3.5
23.....			3.0	5.0	2.6	3.8	2.4	2.8	0.0	2.1	1.4	3.5
24.....			3.0	5.0	2.5	3.4	2.2	2.6	-0.2	2.0	1.6	3.0
25.....			2.8	4.8	3.0	3.0	2.0	2.5	-0.4	1.9	3.0	2.8
26.....		6.0	2.6	4.0	5.5	3.5	1.9	2.4	0.2	1.8	6.1	2.6
27.....	6.6	5.0	2.6	3.5	6.0	4.6	1.8	2.2	0.4	1.6	5.0	Frozen.
28.....	6.0	7.0	2.6	3.0	5.8	4.0	1.6	2.0	1.2	1.8	4.0	
29.....	5.0		5.5	2.8	5.0	3.8	1.6	1.8	1.8	2.2	3.4	
30.....	5.6		6.0	2.8	5.0	3.8	2.2	1.6	2.2	2.0	3.2	
31.....	6.0		5.4		4.6		2.4	1.4		1.8		
<b>Means</b>			4.9	5.2	3.1	3.0	3.2	2.0	1.0	2.6	1.8	4.4
<b>1903</b>												
1.....	Frozen.	4.6	8.7	1.8	2.2	3.4	4.0	2.2	1.8	0.9	0.9	Frozen.
2.....		4.6	5.0	2.2	2.1	3.4	3.6	2.0	1.8	0.8	0.8	
3.....	7.6	6.8	4.2	2.2	2.0	3.3	3.4	1.9	1.6	0.7	0.7	
4.....	7.0	6.0	3.4	2.2	2.6	3.2	3.2	1.9	1.5	1.0	0.6	
5.....	5.0	7.0	3.0	4.0	2.5	3.2	3.2	1.8	1.4	0.9	0.6	
6.....	4.2	5.0	2.8	3.8	2.4	2.0	3.2	1.8	1.2	1.0	0.8	
7.....	4.0	3.8	2.8	3.6	2.2	2.1	3.8	1.8	1.2	1.2	0.9	
8.....	3.8	3.2	5.0	4.5	2.1	4.8	3.4	1.7	1.2	1.5	0.9	
9.....	Frozen.	3.0	6.2	6.3	2.0	3.5	3.2	1.6	1.5	3.6	0.9	
10.....		2.8	5.0	4.9	2.0	3.2	3.0	1.6	1.6	3.4	0.8	
11.....		2.4	4.2	4.0	1.9	2.0	2.9	1.5	1.4	3.0	0.8	
12.....	5.6	2.8	3.4	3.8	1.9	3.8	2.8	1.5	1.4	2.8	0.7	
13.....	4.0	4.2	2.8	3.8	1.8	6.0	2.8	1.4	1.3	2.6	0.7	
14.....	Frozen.	3.8	2.4	3.8	1.8	5.0	2.8	1.4	1.2	2.6	0.7	
15.....		4.0	2.2	4.0	1.7	5.4	3.0	1.3	1.1	2.5	0.7	
16.....		7.0	2.0	4.2	1.7	4.5	2.8	1.3	1.0	2.4	0.7	
17.....		6.3	1.8	4.0	1.6	4.0	2.8	1.2	1.0	2.2	1.0	
18.....		5.0	1.8	3.8	1.6	3.8	2.6	1.2	1.0	2.4	4.0	
19.....		Frozen.	1.8	3.5	1.5	3.7	2.6	1.6	2.2	2.6	3.6	
20.....			1.7	3.2	1.5	3.6	2.5	1.6	2.0	2.5	3.2	
21.....			1.6	3.0	1.4	4.0	2.6	3.0	1.9	2.4	3.0	
22.....			2.4	2.8	1.3	3.8	2.6	2.6	1.8	2.2	2.8	
23.....			4.8	2.6	1.8	3.8	2.5	2.4	1.7	2.0	2.6	
24.....			7.3	2.5	2.6	4.0	2.4	2.0	1.6	1.9	2.5	
25.....			5.0	2.5	3.6	3.8	2.4	1.6	1.4	1.8	2.5	
26.....			4.2	2.8	3.8	3.6	2.4	1.4	1.3	1.6	2.4	4.0
27.....			3.4	3.0	5.4	3.4	2.2	1.2	1.2	1.4	2.4	Frozen.
28.....		7.0	2.8	2.8	4.0	3.2	2.2	1.2	1.1	1.3	2.3	
29.....	6.0		2.4	2.6	3.8	6.0	2.0	1.2	1.0	1.2	Frozen.	
30.....	6.0		2.0	2.4	3.6	5.4	2.0	1.8	1.0	1.1		
31.....	6.0		1.8		3.5		2.2	2.0		1.0		
<b>Means</b>		4.7	3.5	3.4	2.4	3.8	2.8	1.7	1.4	1.9	1.8	

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—CHEAT RIVER, ROWLESBURG, W. VA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	Frozen.	Frozen.	3.8	4.2	4.2	2.5	3.0	1.6	1.1	0.5	0.3	0.6
2.....			5.0	4.8	4.0	2.4	3.0	1.6	1.0	0.4	0.2	0.6
3.....			4.0	4.2	3.8	2.4	2.8	1.5	0.9	0.3	0.2	0.6
4.....	0.4		6.0	3.8	3.7	2.4	2.6	1.5	0.9	0.3	0.2	0.6
5.....	Frozen.		4.6	3.5	3.6	2.2	2.5	1.4	0.9	0.2	0.1	1.1
6.....			4.0	3.3	3.4	3.0	2.5	1.4	0.7	0.4	0.1	1.3
7.....			3.4	3.3	3.2	3.2	2.4	1.3	0.6	0.4	0.1	1.6
8.....		5.6	5.6	3.3	3.0	3.0	2.4	1.2	0.5	0.3	0.0	1.5
9.....		4.6	4.6	3.2	2.9	2.9	2.3	1.2	0.5	0.3	0.0	1.5
10.....		3.8	4.0	3.0	2.9	2.9	2.3	1.1	0.5	0.3	-0.1	1.4
11.....		3.0	3.6	3.0	2.9	2.8	2.2	1.1	0.4	0.2	-0.1	1.4
12.....		2.8	3.2	2.9	2.9	2.8	2.4	1.0	0.4	0.4	-0.2	Frozen.
13.....		Frozen.	3.0	2.9	2.8	2.7	3.3	1.0	0.3	1.0	-0.2	
14.....			2.8	3.1	2.7	2.6	2.2	1.0	0.8	1.2	0.6	
15.....			3.0	3.0	2.6	2.6	2.2	1.0	1.0	1.1	0.8	
16.....			3.4	3.0	2.8	2.6	2.1	1.0	1.0	1.0	0.8	
17.....			3.2	3.3	2.9	2.5	2.0	1.2	0.9	0.9	0.8	
18.....			3.0	3.0	3.0	2.5	1.9	1.2	0.8	0.8	0.7	
19.....			3.0	2.8	5.6	2.4	1.8	1.1	0.7	0.7	0.7	
20.....			2.9	2.6	4.8	2.3	1.7	1.0	0.6	0.6	0.6	
21.....			2.9	2.4	5.0	2.3	2.0	1.0	1.0	0.6	0.6	
22.....	6.0		3.5	2.3	4.8	2.8	2.0	0.9	0.9	0.6	0.6	
23.....	7.8	4.0	5.0	2.2	3.8	2.8	2.0	1.7	0.7	0.8	0.8	
24.....	5.0	3.8	5.6	2.1	3.4	2.8	1.9	1.8	0.6	0.9	0.9	
25.....	4.3	3.5	4.8	2.1	3.0	2.7	1.8	1.7	0.5	0.8	0.8	5.6
26.....	3.8	3.4	4.0	2.4	2.8	2.6	1.7	1.6	0.4	0.7	0.8	5.0
27.....	3.2	3.2	4.6	5.0	2.8	2.6	1.7	1.6	0.4	0.6	0.8	5.1
28.....	3.0	3.0	4.2	5.0	3.0	2.6	1.6	1.5	0.7	0.5	0.7	5.0
29.....	2.8	2.9	3.8	4.6	3.0	2.8	1.8	1.5	0.6	0.4	0.7	4.0
30.....	2.6		3.4	4.5	2.8	3.2	1.9	1.4	0.5	0.4	0.7	3.5
31.....	2.5		3.2		2.6		1.8	1.3		0.3		3.0
Means.....			3.9	3.3	3.4	2.7	2.2	1.3	0.7	0.6	0.4	2.4

## OHIO RIVER SYSTEM—McGEES RUN, DERRY STATION, PA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	Frozen.	Frozen.	0.9	0.2	0.1	0.2	0.1	0.0	0.0	0.0	0.0	0.2
2.....			0.3	0.2	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.2
3.....			0.4	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.2
4.....			0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3
5.....		0.5	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7
6.....	0.4	0.4	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.5
7.....	0.4	0.3	0.4	0.2	0.1	0.0	0.5	0.0	0.0	0.0	0.0	0.3
8.....	0.4	1.0	0.4	0.2	0.1	0.0	0.4	0.0	0.0	0.0	0.0	0.2
9.....	0.3	0.5	0.4	0.1	0.1	0.0	0.3	0.0	0.0	0.0	0.0	0.2
10.....	0.3	0.5	0.3	0.1	0.1	0.0	0.3	0.0	0.0	0.0	0.0	0.2
11.....	0.3	0.5	0.3	0.1	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.2
12.....	0.7	0.4	0.3	0.1	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.2
13.....	0.4	0.4	0.3	0.1	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.2
14.....	0.4	0.4	0.3	0.1	0.1	0.3	0.2	0.0	0.0	0.0	0.0	0.2
15.....	0.3	0.4	0.3	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.2
16.....	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.2
17.....	0.3	0.3	Frozen.	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.2
18.....	0.3	0.3		0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.2
19.....	0.6	0.3	0.5	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.2
20.....	0.5	0.3	0.6	0.1	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.2
21.....	0.8	0.3	0.5	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.2
22.....	0.4	0.5	0.4	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.2
23.....	0.4	0.4	0.3	0.3	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.2
24.....	0.3	0.4	0.2	0.2	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.2
25.....	0.4	Frozen.	0.2	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.2	0.2
26.....	0.3		0.2	0.1	0.1	0.0	0.3	0.0	0.0	0.0	1.2	0.2
27.....	0.3		0.2	0.1	0.1	0.0	0.3	0.0	0.0	0.0	0.6	0.2
28.....	Frozen.		0.2	0.1	0.1	0.0	0.2	0.0	0.0	0.0	0.5	0.2
29.....			0.2	0.1	0.1	0.0	0.2	0.0	0.0	0.0	0.4	0.2
30.....			0.2	0.1	0.1	0.2	0.1	0.0	0.0	0.0	0.2	0.2
31.....			0.2		0.1		0.1	0.0		0.0		0.2
Means.....	0.4	0.4	0.3	0.1	0.1	0.0	0.2	0.0	0.0	0.0	0.1	0.2

\* 6.0 at 6 p. m.



## OHIO RIVER SYSTEM—MCGEES RUN, DERRY STATION, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1901												
1.....	0.2	0.2	Frozen.	0.2	0.2	0.2						
2.....	0.2	0.2		0.2	0.2	0.2						
3.....	0.2	0.2		1.8	0.2	0.2						
4.....	0.2	0.2	0.5	0.9	0.2	0.2						
5.....	0.2	0.2	0.4	1.7	0.1	0.2						
6.....	0.2	0.2	Frozen.	1.7	0.1	0.2						
7.....	0.2	Frozen.		0.9	0.1	0.3						
8.....	0.2			0.7	0.1	0.2						
9.....	0.2		0.6	0.7	0.2	0.2						
10.....	0.4		0.7	0.6	0.2	0.2						
11.....	0.4		0.5	0.4	0.2	0.2						
12.....	0.4		0.4	0.6	0.2	4.8						
13.....	0.4		0.4	0.5	0.3	0.1						
14.....	0.3		0.4	0.4	0.2	0.8						
15.....	0.3		0.3	0.6	0.2	0.5						
16.....	0.3		0.3	0.4	0.2	0.3						
17.....	0.3	0.2	0.3	0.2	0.2	0.3						
18.....	0.2	0.2	0.3	0.5	0.2	0.2						
19.....	0.2	0.2	0.2	1.2	0.2	0.3						
20.....	0.2	Frozen.	0.2	1.6	0.2	0.3						
21.....	0.2		0.3	1.0	0.2	0.3						
22.....	0.2		0.3	0.7	0.2	0.3						
23.....	0.2		0.3	0.6	0.3	0.3						
24.....	0.2		0.2	0.4	0.3	0.3						
25.....	0.3		0.2	0.4	0.9	0.2						
26.....	0.3		0.2	0.3	1.2	0.2						
27.....	0.3		0.6	0.3	1.8	0.2						
28.....	0.3		0.4	0.3	1.2	0.1						
29.....	0.2		0.3	0.2	1.0	0.1						
30.....	0.2		0.3	0.2	0.8	0.1						
31.....	0.2		0.2		0.6							
Means.	0.3		0.4	0.7	0.4	0.4						

## OHIO RIVER SYSTEM—BRUSH RUN, IRWIN, PA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	0.4	0.8	5.5	0.7	0.5	0.8	0.5	0.3	0.2	0.1	0.1	
2.....	0.4	0.6	2.1	0.6	0.5	0.6	0.3	0.3	0.2	0.1	0.1	
3.....	0.4	0.6	2.0	0.6	0.4	0.5	0.2	0.2	0.2	0.1	0.1	
4.....	0.4	1.0	1.4	0.5	0.4	0.3	0.2	0.2	0.2	0.1	0.1	
5.....	0.4	1.0	1.2	0.5	0.4	0.3	0.3	0.2	0.2	0.1	0.1	
6.....	0.3	0.8	2.2	0.4	0.4	0.3	1.1	0.2	0.2	0.1	0.1	
7.....	0.3	0.8	1.9	0.4	0.4	0.4	1.0	0.2	0.2	0.1	0.1	
8.....	0.3	3.8	1.8	0.3	0.4	0.4	2.0	0.2	0.2	0.4	0.3	
9.....	0.3	2.3	1.3	0.3	0.4	0.3	1.1	0.2	0.2	0.2	0.4	
10.....	0.3	1.3	1.2	0.3	0.4	0.3	0.8	0.2	0.2	0.1	0.3	
11.....	0.3	1.2	1.1	0.3	0.4	0.3	0.5	0.2	0.2	0.1	0.3	
12.....	1.0	1.1	1.0	0.3	0.4	0.4	0.5	0.1	0.2	0.1	0.2	
13.....	0.9	2.6	0.9	0.3	0.3	0.3	0.5	0.1	0.2	0.1	0.2	
14.....	0.7	2.0	0.9	0.3	0.3	3.7	0.4	0.1	0.2	0.5	0.2	
15.....	0.7	1.6	0.8	0.3	0.3	1.1	0.3	0.1	0.1	0.4	0.2	
16.....	0.5	1.3	0.7	0.3	0.2	0.8	0.2	0.3	0.1	0.2	0.2	
17.....	0.5	1.0	0.6	0.5	0.2	0.7	0.2	0.2	0.1	0.1	0.2	
18.....	0.5	1.0	0.6	0.5	0.5	0.6	0.5	0.2	0.1	0.1	0.2	
19.....	2.0	0.8	1.2	0.5	0.6	0.5	0.4	0.2	0.1	0.1	0.2	
20.....	2.0	0.6	2.0	0.4	0.6	0.5	0.4	0.2	0.1	0.1	0.2	
21.....	2.0	0.6	1.8	0.3	0.5	0.4	0.3	0.2	0.1	0.1	0.6	
22.....	1.4	2.0	1.2	0.3	0.4	0.3	0.3	0.2	0.1	0.1	0.4	
23.....	1.0	1.3	1.1	1.2	0.4	0.3	0.7	0.2	0.1	0.1	0.3	
24.....	1.0	1.6	0.9	0.8	0.3	0.2	0.5	0.2	0.1	0.4	0.3	
25.....	1.0	0.8	0.9	0.6	0.3	0.2	0.5	0.2	0.1	0.3	1.1	
26.....	1.0	0.8	0.8	0.5	0.2	0.2	0.5	0.2	0.1	0.2	3.6	
27.....	1.0	0.6	0.8	0.5	0.2	0.2	0.5	0.2	0.1	0.2	2.0	
28.....	1.0	0.6	0.7	0.5	0.2	0.2	0.3	0.2	0.1	0.1	1.6	
29.....	1.0		0.7	0.5	0.2	0.2	0.3	0.2	0.1	0.1	1.0	
30.....	1.0		0.7	0.5	0.2	0.6	0.3	0.2	0.1	0.1	0.8	
31.....	0.8		0.7		0.2		0.3	0.2		0.1		
Means.	0.8	1.2	1.3	0.5	0.4	0.5	0.5	0.2	0.1	0.2	0.5	

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—YOUGHIOGHENY RIVER, CONFLUENCE, PA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	1.2	2.0	2.8	2.0	1.0	1.0	1.8	2.8	0.2	0.1	0.3	3.0
2.....	1.2	1.8	2.6	2.0	1.0	1.0	1.5	2.4	0.2	0.1	0.3	2.5
3.....	1.1	1.8	2.4	2.1	1.0	1.2	1.3	2.0	0.1	0.1	0.2	2.2
4.....	1.1	1.8	2.2	2.0	0.9	1.2	1.7	1.6	0.1	0.0	0.2	2.3
5.....	1.1	4.0	3.0	1.9	0.9	1.1	1.8	1.4	0.1	0.0	0.2	6.4
6.....	1.8	3.2	3.2	1.8	0.9	1.1	1.5	1.3	0.1	0.0	0.1	4.5
7.....	1.8	3.2	3.8	1.8	0.8	1.2	2.9	1.2	0.1	0.0	0.1	3.7
8.....	2.0	5.9	3.1	1.6	0.8	1.1	3.1	1.0	0.1	0.2	0.1	3.0
9.....	6.0	6.1	2.8	1.6	1.3	1.3	2.6	0.9	0.0	0.2	0.4	2.6
10.....	6.0	4.8	2.4	1.5	1.4	1.2	2.0	0.9	0.0	0.2	0.6	2.6
11.....	5.4	4.5	2.4	1.4	1.3	1.2	1.8	0.8	0.0	0.2	1.0	2.4
12.....	4.8	3.3	2.0	1.4	1.3	1.2	1.4	0.8	0.0	0.1	0.9	2.2
13.....	4.2	2.8	1.8	1.4	1.2	2.1	1.2	0.8	0.0	0.1	0.9	1.9
14.....	3.8	2.6	1.6	1.5	1.1	2.3	1.1	0.7	0.0	0.3	0.8	1.7
15.....	3.6	2.4	1.6	1.4	1.1	3.6	1.1	0.7	0.0	0.4	0.7	1.4
16.....	3.3	2.2	2.2	1.3	1.0	3.4	0.9	0.8	0.0	0.4	0.7	1.5
17.....	3.3	2.0	2.0	1.3	1.0	3.9	0.8	0.8	-0.1	0.3	0.7	1.3
18.....	3.0	2.0	2.0	1.2	0.9	5.2	0.8	0.7	-0.1	0.3	0.7	1.1
19.....	2.8	2.0	2.0	1.2	1.3	3.9	0.8	0.6	-0.1	0.2	0.6	1.1
20.....	2.6	2.0	3.6	1.1	3.1	4.0	1.3	0.6	-0.2	0.2	0.6	1.0
21.....	5.0	2.4	3.2	1.2	2.7	2.8	1.2	0.6	-0.2	0.2	1.2	1.0
22.....	4.8	2.8	3.0	1.1	2.4	2.7	1.1	0.5	-0.2	0.1	1.4	1.0
23.....	3.8	2.8	2.6	1.7	2.0	2.3	2.6	0.5	-0.2	0.0	2.4	0.9
24.....	3.2	2.2	2.4	1.8	1.7	2.3	3.0	0.4	-0.2	0.9	2.8	0.9
25.....	2.6	2.0	2.0	1.6	1.5	2.0	2.4	0.5	-0.2	0.7	3.3	0.9
26.....	3.2	2.2	1.9	1.4	1.5	1.6	2.8	0.4	-0.2	0.6	10.3	0.8
27.....	2.8	2.2	1.9	1.3	1.4	1.8	2.6	0.3	-0.2	0.6	7.3	0.8
28.....	2.4	2.0	1.8	1.2	1.3	1.9	2.0	0.3	-0.1	0.5	5.2	0.8
29.....	2.4		1.6	1.1	1.2	1.8	1.7	0.3	-0.1	0.4	4.1	0.8
30.....	2.0		2.0	1.1	1.2	2.0	4.0	0.2	-0.1	0.4	3.7	0.8
31.....	2.0		2.2		1.1		3.4	0.2		0.3		0.9
<b>Means.</b>	<b>3.0</b>	<b>2.8</b>	<b>2.4</b>	<b>1.5</b>	<b>1.3</b>	<b>2.1</b>	<b>1.9</b>	<b>0.9</b>	<b>0.0</b>	<b>0.3</b>	<b>4.4</b>	<b>1.9</b>
<b>1901</b>												
1.....	0.9	2.0	1.1	2.7	1.9	4.0	1.4	0.8	1.5	0.9	0.1	2.0
2.....	0.8	1.8	2.1	2.1	1.8	3.7	1.3	0.7	2.4	0.7	0.0	2.3
3.....	0.8	1.8	2.0	2.8	1.7	3.2	1.2	0.6	2.2	0.8	0.0	2.8
4.....	0.8	2.0	4.5	3.3	1.5	2.9	1.2	0.6	2.0	0.8	0.0	4.1
5.....	0.7	1.9	4.8	4.0	1.2	2.5	1.1	0.5	1.7	0.7	0.0	3.7
6.....	0.7	1.9	4.3	7.6	1.2	2.2	1.1	0.5	2.4	0.7	0.0	3.2
7.....	0.7	1.9	4.0	10.5	1.2	2.4	1.1	0.5	2.0	0.6	0.0	2.4
8.....	0.7	1.9	3.5	8.0	1.2	2.6	1.1	0.5	1.8	0.6	0.0	2.0
9.....	0.7	1.8	3.6	6.4	2.8	2.3	0.9	0.5	1.6	0.5	0.0	1.8
10.....	0.9	1.8	8.3	4.8	4.0	2.2	0.9	0.4	1.4	0.5	0.0	4.2
11.....	2.0	1.7	9.7	4.0	4.5	2.0	0.8	0.4	1.3	0.5	0.0	3.3
12.....	4.2	1.7	7.7	3.6	3.7	1.8	1.0	0.3	1.3	0.5	0.0	3.0
13.....	3.8	1.6	4.5	3.2	3.5	1.7	1.0	0.2	1.3	0.5	0.1	2.8
14.....	2.8	1.6	4.1	3.0	3.3	1.6	1.0	0.2	1.1	0.5	0.1	2.6
15.....	2.8	1.5	3.7	3.0	2.9	1.6	0.9	0.2	1.3	0.5	0.1	10.6
16.....	2.4	1.4	3.2	2.8	2.5	1.6	1.5	0.2	1.5	0.4	0.1	7.0
17.....	2.1	1.5	3.0	2.7	2.2	1.5	1.6	0.2	1.5	0.4	0.1	4.9
18.....	2.0	1.5	2.7	2.6	2.0	1.5	1.6	0.2	2.0	0.4	0.1	4.3
19.....	2.0	1.5	2.3	3.0	2.1	1.4	1.8	0.2	1.8	0.4	0.2	3.9
20.....	1.8	1.4	2.0	4.6	2.0	1.4	1.6	0.6	1.6	0.4	0.3	3.7
21.....	1.9	1.4	2.6	8.5	1.9	1.4	1.4	0.6	1.4	0.3	0.3	3.4
22.....	2.2	1.3	2.4	6.9	1.8	1.3	1.4	0.7	1.3	0.3	0.3	3.1
23.....	2.0	1.3	2.2	5.5	1.8	1.3	1.2	0.7	1.3	0.3	0.3	2.9
24.....	1.9	1.3	2.2	5.0	1.8	1.4	1.1	2.4	1.2	0.2	1.1	2.4
25.....	2.0	1.2	2.0	4.3	2.0	1.4	1.1	3.0	1.2	0.2	1.2	2.5
26.....	2.0	1.2	2.0	4.0	3.3	1.3	1.1	2.8	1.0	0.2	2.0	2.5
27.....	2.0	1.2	2.5	3.7	6.2	1.2	1.0	2.6	1.0	0.2	1.9	2.5
28.....	2.0	1.1	5.0	3.2	7.5	1.2	1.0	2.5	0.9	0.1	1.9	3.0
29.....	1.9		3.9	2.7	6.1	1.6	1.0	2.3	0.9	0.1	1.9	6.1
30.....	1.9		3.4	2.3	6.0	1.6	0.8	2.0	0.9	0.1	1.9	6.0
31.....	2.0		3.0		4.8		0.8	1.8		0.1		5.6
<b>Means.</b>	<b>1.8</b>	<b>1.6</b>	<b>3.6</b>	<b>4.4</b>	<b>2.9</b>	<b>1.9</b>	<b>1.2</b>	<b>1.0</b>	<b>1.5</b>	<b>0.4</b>	<b>0.5</b>	<b>3.7</b>

## OHIO RIVER SYSTEM—YOUGHIOGHENY RIVER, CONFLUENCE, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	4.5	2.6	9.9	2.6	1.6	1.4	7.5	1.5	0.5	0.7	0.5	2.2
2.....	3.9	2.3	7.5	3.4	1.3	1.2	5.6	1.4	0.5	0.6	0.4	2.2
3.....	3.1	2.3	6.0	3.0	1.8	1.0	4.0	1.4	0.5	0.5	0.5	2.4
4.....	2.9	2.2	4.3	3.0	1.8	0.9	4.2	1.6	0.5	0.6	0.5	3.6
5.....	2.8	2.0	3.9	3.0	1.6	0.8	4.0	1.5	0.5	1.1	0.5	3.6
6.....	2.5	1.7	4.2	2.7	1.5	0.8	3.3	1.6	0.4	1.8	0.5	3.5
7.....	2.2	1.5	4.2	6.6	1.4	0.8	2.7	1.9	0.4	2.0	0.4	3.0
8.....	1.9	1.5	4.0	6.0	1.4	0.8	2.4	1.9	0.5	1.9	0.4	2.7
9.....	1.7	1.4	4.4	5.4	1.3	1.2	2.0	1.8	0.5	1.9	0.4	2.5
10.....	1.6	1.3	4.8	5.6	1.3	1.1	2.4	1.6	0.5	1.8	0.4	2.1
11.....	1.5	1.2	4.1	5.7	1.2	1.1	3.0	1.5	0.5	1.6	0.3	2.6
12.....	1.5	1.1	3.7	7.1	1.1	1.1	2.6	1.4	0.4	2.0	0.3	6.9
13.....	1.5	1.0	4.8	7.0	1.0	1.5	2.2	1.3	0.4	1.7	0.3	5.5
14.....	1.4	0.9	4.9	5.2	1.0	1.7	1.9	1.2	0.4	1.4	0.3	5.8
15.....	1.4	0.9	4.5	4.4	0.9	0.9	1.7	1.2	0.4	1.3	0.3	4.6
16.....	1.5	0.9	4.0	3.8	0.9	0.9	1.5	1.1	0.4	1.2	0.3	4.6
17.....	1.5	1.0	6.4	3.2	0.9	1.1	1.3	1.1	0.4	1.0	0.3	6.3
18.....	1.5	1.0	6.0	2.8	0.8	1.0	1.2	1.0	0.4	0.9	0.3	4.8
19.....	1.5	1.0	3.9	2.4	0.8	1.0	1.4	1.0	0.4	0.9	0.3	4.1
20.....	1.4	1.0	3.5	2.0	3.6	1.9	2.5	0.9	0.4	0.9	0.3	3.7
21.....	1.6	1.2	3.2	1.8	3.9	2.6	2.5	0.9	0.3	0.8	0.3	4.0
22.....	1.8	1.5	2.8	1.7	3.0	2.4	2.0	0.9	0.3	0.8	0.3	5.9
23.....	1.8	1.5	2.6	1.5	2.9	2.0	1.8	0.8	0.3	0.7	0.3	4.5
24.....	1.7	1.5	2.4	1.4	1.7	1.6	1.5	0.7	0.3	0.7	0.3	4.0
25.....	2.0	1.6	2.1	1.3	2.2	1.3	1.2	0.7	0.3	0.6	0.6	3.5
26.....	2.1	3.3	2.0	1.3	2.2	1.7	1.3	0.7	0.5	0.6	2.8	3.1
27.....	4.0	4.0	1.8	1.2	2.3	1.5	1.1	0.7	0.7	0.6	2.6	2.8
28.....	4.8	10.1	1.7	1.2	2.0	1.4	1.0	0.7	0.7	0.8	2.4	3.0
29.....	3.9	.....	2.2	1.5	2.0	1.5	1.0	0.6	0.6	0.6	2.2	2.7
30.....	3.4	.....	2.4	1.8	1.8	2.0	1.4	0.6	0.5	0.5	2.2	3.0
31.....	2.9	.....	2.1	.....	1.6	.....	1.7	0.6	.....	0.5	.....	2.8
<b>Means.</b>	<b>2.3</b>	<b>1.9</b>	<b>4.0</b>	<b>3.3</b>	<b>1.7</b>	<b>1.3</b>	<b>2.4</b>	<b>1.2</b>	<b>0.4</b>	<b>1.1</b>	<b>0.7</b>	<b>3.7</b>
<b>1903</b>												
1.....	2.6	4.6	5.0	4.2	2.0	1.0	4.3	1.0	1.0	-0.4	-0.3	0.2
2.....	2.5	4.9	4.0	3.2	1.8	1.0	4.0	0.9	0.6	-0.4	-0.3	0.2
3.....	5.0	4.6	3.8	2.7	1.7	0.9	3.8	0.8	0.3	-0.4	-0.4	0.1
4.....	6.7	7.1	3.8	3.0	1.7	0.9	3.7	0.7	0.2	-0.4	-0.4	0.1
5.....	5.1	6.7	3.6	2.8	1.6	0.8	3.2	0.7	0.2	-0.4	-0.4	0.0
6.....	4.1	4.6	3.6	2.3	1.6	0.8	5.8	0.7	0.1	-0.4	0.2	0.0
7.....	3.4	4.0	3.6	2.1	1.5	1.1	5.0	0.6	0.0	0.1	0.2	0.0
8.....	3.4	3.8	4.8	2.5	1.5	1.1	4.6	0.6	0.0	0.6	0.2	0.0
9.....	3.0	3.4	6.4	4.0	1.4	1.0	3.8	0.6	0.9	1.0	0.1	0.0
10.....	2.8	3.4	4.8	3.6	1.4	1.0	3.6	0.5	1.2	1.0	0.1	0.0
11.....	2.6	3.4	4.8	3.2	1.4	0.9	3.4	0.4	0.9	0.9	0.1	0.0
12.....	2.5	3.4	4.5	3.2	1.3	0.9	3.0	0.3	0.7	0.9	0.0	0.0
13.....	3.0	3.4	4.2	3.8	1.3	1.5	3.5	0.3	0.3	0.6	0.0	0.0
14.....	2.7	3.1	4.0	4.0	1.3	2.0	5.0	0.2	0.2	0.5	0.0	0.0
15.....	2.3	3.1	4.0	3.7	1.2	3.2	4.5	0.2	0.1	0.4	-0.1	0.0
16.....	2.1	7.2	3.8	5.1	1.2	2.9	4.0	0.1	0.0	0.3	0.0	0.0
17.....	2.0	4.0	3.8	4.2	1.1	2.8	3.5	0.1	0.0	0.3	1.4	0.0
18.....	2.0	3.2	3.6	3.6	1.0	2.8	3.5	0.0	0.0	0.4	2.0	0.0
19.....	1.8	2.9	3.6	3.4	0.9	2.7	4.1	0.0	0.0	0.3	1.5	0.0
20.....	1.7	3.0	3.4	3.1	0.9	2.6	3.6	0.0	0.0	0.3	1.4	0.0
21.....	1.7	2.9	3.4	2.9	0.9	2.6	3.6	0.0	0.0	0.2	1.0	0.3
22.....	1.7	2.9	4.5	2.7	0.8	2.5	3.3	0.0	-0.1	0.2	0.9	1.0
23.....	1.7	2.9	5.6	2.9	0.9	3.2	3.0	0.0	-0.1	0.2	0.8	1.7
24.....	1.6	2.6	6.6	2.8	1.0	3.9	2.8	0.0	-0.2	0.1	0.7	1.0
25.....	1.6	2.6	5.4	2.8	1.1	3.2	2.8	0.0	-0.2	0.1	0.6	1.0
26.....	1.6	2.6	4.8	3.1	1.3	3.2	2.2	0.0	-0.3	0.0	0.5	2.6
27.....	1.5	2.6	4.8	2.8	1.3	2.8	1.8	0.0	-0.3	0.0	0.4	1.6
28.....	1.8	4.6	4.8	2.7	1.2	2.6	1.6	0.0	-0.3	-0.1	0.3	1.0
29.....	5.4	.....	4.6	2.5	1.2	4.8	1.4	0.1	-0.4	-0.1	0.2	0.8
30.....	a 8.0	.....	4.6	2.4	1.1	5.0	1.2	0.1	-0.4	-0.2	0.2	0.6
31.....	6.0	.....	4.8	.....	1.1	.....	1.0	1.0	.....	-0.2	.....	0.5
<b>Means.</b>	<b>3.1</b>	<b>3.8</b>	<b>4.4</b>	<b>3.2</b>	<b>1.3</b>	<b>2.2</b>	<b>3.4</b>	<b>0.3</b>	<b>0.1</b>	<b>0.2</b>	<b>0.4</b>	<b>0.4</b>

• Maximum stage, 8.3.

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—YOUGHIOGHENY RIVER, CONFLUENCE, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	0.5	1.4	4.2	3.5	2.8	2.7	0.1	0.0	-0.3	-0.7	-0.7	-0.7
2.....	0.5	1.2	3.7	4.4	2.5	2.6	0.6	-0.1	-0.3	-0.7	-0.7	-0.7
3.....	0.5	1.2	3.1	3.3	2.3	2.5	0.8	1.2	-0.3	-0.7	-0.7	-0.7
4.....	0.4	0.9	6.2	2.6	2.1	2.4	0.6	0.8	-0.3	-0.8	-0.7	-0.7
5.....	0.3	0.7	4.6	2.0	1.8	2.3	0.5	0.6	-0.3	-0.8	-0.7	-0.8
6.....	Frozen.	0.7	3.6	1.8	1.7	2.3	0.5	0.6	-0.3	-0.8	-0.7	-0.8
7.....		2.8	3.7	1.7	1.6	2.0	0.4	0.4	-0.3	-0.8	-0.7	-0.8
8.....		7.2	5.8	1.7	1.5	1.9	0.4	0.2	-0.4	-0.8	-0.7	-0.8
9.....		3.4	4.4	1.6	1.4	1.8	0.4	0.0	-0.4	-0.8	-0.7	-0.8
10.....		3.0	3.4	1.5	1.4	1.7	0.4	-0.1	-0.4	-0.8	-0.7	-0.8
11.....		2.6	2.6	1.5	1.3	1.6	1.6	-0.1	-0.4	-0.8	-0.7	-0.6
12.....		2.4	2.6	1.5	1.3	1.5	1.2	-0.2	-0.4	-0.8	-0.7	-0.6
13.....		2.0	2.4	1.4	1.2	1.4	1.2	-0.2	-0.4	-0.8	-0.7	Frozen.
14.....		1.9	2.2	1.3	1.1	1.3	1.0	-0.2	-0.5	-0.8	-0.7	
15.....		1.9	2.0	1.3	1.1	1.2	0.9	-0.3	-0.5	-0.8	-0.7	
16.....		1.7	1.8	1.4	1.0	1.2	0.8	-0.3	-0.5	-0.8	-0.7	
17.....		1.5	1.7	1.3	1.0	1.1	0.7	-0.1	-0.6	-0.8	-0.7	
18.....		1.3	1.5	1.3	1.0	0.9	0.5	0.0	-0.6	-0.8	-0.7	
19.....		Frozen.	1.8	1.2	3.8	0.6	0.4	-0.1	-0.6	-0.8	-0.7	
20.....			2.4	1.2	3.4	0.3	0.2	-0.1	-0.6	-0.8	-0.7	
21.....			2.4	1.1	3.3	0.2	0.0	-0.1	-0.6	-0.8	-0.7	
22.....			3.0	1.1	3.2	0.3	0.0	-0.1	-0.7	-0.8	-0.7	
23.....	9.0		6.6	1.0	3.1	0.2	1.0	0.0	-0.7	-0.8	-0.7	
24.....	10.6	2.9	6.6	1.0	3.1	0.2	1.0	0.0	-0.7	-0.8	-0.7	
25.....	5.0	4.2	5.0	1.0	3.2	0.1	1.2	0.0	-0.7	-0.7	-0.7	
26.....	4.2	3.6	3.8	1.0	3.1	0.0	0.8	0.0	-0.7	-0.6	-0.7	3.0
27.....	3.6	3.2	3.0	1.6	2.9	-0.2	0.5	0.0	-0.7	-0.6	-0.7	2.6
28.....	3.1	2.6	2.6	2.2	3.0	-0.3	0.4	-0.1	-0.7	-0.6	-0.7	2.7
29.....	2.2	2.2	2.2	3.2	2.8	-0.3	0.4	-0.1	-0.7	-0.6	-0.7	3.6
30.....	1.4	2.1	2.0	3.6	2.7	0.1	0.4	-0.2	-0.7	-0.6	-0.7	2.7
31.....	1.0		1.6	3.0	2.6	0.1	0.3	-0.2	-0.7	-0.6	-0.7	2.0
Means.	1.0		1.6		2.7		-0.2			-0.6		1.8
Means.	2.9	2.3	3.1	1.9	2.2	1.1	0.6	0.0	-0.5	-0.7	-0.7	0.3

## OHIO RIVER SYSTEM—YOUGHIOGHENY RIVER, WEST NEWTON, PA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	Frozen.	1.0	7.0	2.4	1.1	0.7	1.2	2.2	0.1	0.0	0.1	2.6
2.....		Frozen.	6.0	2.7	1.1	0.7	0.9	1.4	0.1	0.1	0.0	2.2
3.....			4.5	3.5	1.0	0.8	0.7	1.1	0.1	0.0	0.0	1.9
4.....			4.0	3.3	1.0	0.9	0.6	0.8	0.1	0.0	0.1	1.7
5.....			4.0	3.0	0.9	0.9	1.6	0.8	0.0	0.1	0.1	6.9
6.....		5.0	5.7	2.8	0.9	0.7	1.1	0.6	0.0	0.0	0.1	6.2
7.....		3.2	6.6	2.8	0.8	0.7	0.9	0.5	0.0	0.0	0.4	4.2
8.....		3.7	6.4	2.7	0.8	0.7	1.8	0.3	0.0	0.1	0.4	3.5
9.....		9.6	4.5	2.5	0.8	0.8	1.3	0.3	0.0	0.1	0.4	1.8
10.....		6.6	3.7	2.3	1.1	1.0	1.0	0.2	0.0	0.1	0.4	2.6
11.....		4.6	3.3	2.1	1.1	0.9	0.9	0.2	0.0	0.1	0.5	2.0
12.....	6.4	3.6	2.9	1.8	1.1	0.7	0.8	0.2	-0.1	0.1	0.6	1.7
13.....	5.0	5.0	2.4	1.8	1.0	0.7	0.7	0.2	-0.1	0.0	0.7	1.6
14.....	3.5	7.0	2.3	1.7	0.9	1.1	0.5	0.4	-0.1	0.1	0.8	1.6
15.....	2.8	5.3	2.0	1.6	0.8	3.4	0.4	0.5	-0.1	0.3	1.0	1.4
16.....	3.0	3.9	2.3	1.4	0.7	2.9	0.3	0.4	-0.1	0.4	0.9	1.2
17.....	3.0	3.4	2.0	1.3	0.7	2.6	0.3	0.5	-0.1	0.5	0.8	1.0
18.....	2.7	2.9	1.7	1.4	0.7	4.9	0.2	0.6	-0.1	0.4	0.6	1.0
19.....	3.2	2.3	2.5	2.5	0.7	4.1	0.2	0.6	-0.1	0.4	0.5	0.9
20.....	3.9	1.8	4.6	2.5	1.3	3.0	1.2	0.6	-0.1	0.2	0.5	0.9
21.....	7.8	2.4	6.5	1.4	2.1	2.3	1.0	0.7	-0.1	0.1	1.2	1.1
22.....	6.3	2.5	4.6	1.3	1.6	1.8	0.7	0.7	-0.1	0.1	2.0	1.0
23.....	4.5	4.0	3.6	1.7	1.2	1.5	0.6	0.4	-0.1	0.1	1.7	0.9
24.....	3.6	3.0	3.1	2.2	1.2	1.3	1.5	0.3	-0.1	0.4	2.2	1.1
25.....	3.0	3.0	2.8	2.0	1.1	1.1	0.9	0.7	-0.1	0.7	2.5	1.0
26.....	2.8	Frozen.	2.6	1.8	1.0	1.1	1.7	0.4	-0.1	0.5	7.9	1.3
27.....	2.4		2.4	1.6	0.9	1.1	2.2	0.4	-0.1	0.5	12.1	1.1
28.....	2.0		2.4	1.5	0.8	1.0	1.6	0.2	-0.1	0.4	6.7	1.0
29.....	1.7		2.1	1.3	0.8	0.9	1.1	0.2	-0.1	0.3	4.3	0.9
30.....	1.4		2.0	1.1	0.7	0.9	1.3	0.2	0.0	0.2	3.3	0.9
31.....	1.2		2.5		0.7		3.6	0.2		0.1		1.5
Means.	2.3	3.9	3.6	2.1	1.0	1.5	1.1	0.5	0.0	0.2	1.8	1.9

a 11.6 at 3 p. m.

b 14.7 at 6 p. m.

## OHIO RIVER SYSTEM—YOUGHIOGHENY RIVER, WEST NEWTON, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	1.8	1.1	Frozen.	2.4	2.2	4.8	1.1	0.3	0.4	0.3	0.0	0.7
2.....	1.6	1.0	.....	2.2	2.0	3.7	0.9	0.3	0.3	0.3	0.0	0.9
3.....	1.3	1.0	.....	2.9	1.9	3.0	0.7	0.2	0.7	0.3	0.0	1.1
4.....	1.1	1.6	7.0	5.0	1.8	2.5	0.5	0.2	0.5	0.2	0.0	5.1
5.....	0.9	1.7	6.6	5.1	1.6	2.2	0.6	0.1	0.5	0.2	0.0	4.1
6.....	0.7	1.4	5.0	9.0	1.4	1.9	0.6	0.1	0.4	0.2	0.0	2.7
7.....	1.2	1.1	4.0	14.3	1.3	2.7	0.8	0.1	0.3	0.1	0.0	2.0
8.....	1.0	Frozen.	2.6	10.3	1.4	3.5	0.5	0.1	0.2	0.1	0.0	1.7
9.....	1.2	2.7	2.2	7.3	1.4	2.7	0.4	0.2	0.2	0.1	0.0	1.5
10.....	1.4	2.3	10.7	5.4	5.4	2.1	0.4	0.3	0.1	0.1	0.0	1.7
11.....	2.4	2.3	9.7	4.3	6.1	1.8	0.4	0.4	0.5	0.1	0.0	4.8
12.....	4.8	2.0	9.3	3.7	5.0	1.6	0.4	0.2	0.3	0.1	0.0	3.5
13.....	5.8	Frozen.	6.4	3.2	4.5	1.4	0.4	0.2	0.2	0.1	0.1	2.6
14.....	4.0	.....	5.4	2.8	3.7	1.8	0.3	0.2	0.3	0.1	0.1	2.0
15.....	3.9	.....	4.9	3.3	3.1	1.6	0.3	0.1	0.4	0.1	0.1	9.5
16.....	2.9	.....	4.0	3.7	2.7	1.8	0.4	0.2	0.3	0.1	0.1	10.0
17.....	2.8	.....	3.3	3.7	2.3	1.6	0.4	0.2	0.5	0.1	0.2	5.5
18.....	2.6	.....	2.9	3.2	2.0	1.5	1.7	0.1	0.7	0.1	0.2	3.5
19.....	2.2	.....	2.8	3.0	2.0	1.4	1.7	0.1	0.9	0.1	0.2	2.5
20.....	2.0	.....	2.5	9.2	2.1	1.2	1.2	0.5	0.8	0.1	0.1	2.0
21.....	1.8	.....	3.1	12.0	1.8	1.1	0.9	0.8	0.6	0.1	0.1	1.5
22.....	2.1	.....	3.9	10.3	1.6	1.0	0.7	0.7	0.5	0.1	0.1	Frozen.
23.....	2.6	.....	3.1	7.5	1.7	1.1	1.0	0.6	0.4	0.1	0.1	.....
24.....	2.6	.....	2.7	6.1	2.6	1.4	0.6	0.6	0.3	0.1	0.3	.....
25.....	2.3	.....	2.5	6.2	2.2	1.5	0.5	1.6	0.2	0.0	2.5	.....
26.....	2.6	.....	2.4	5.0	2.7	1.2	0.5	1.5	0.1	0.0	2.4	.....
27.....	2.1	.....	4.8	3.9	9.6	2.6	0.4	1.0	0.1	0.0	1.6	4.0
28.....	2.0	.....	5.0	3.2	10.0	2.6	0.3	0.8	0.1	0.0	1.1	5.0
29.....	1.8	.....	3.8	2.7	8.6	1.6	0.3	0.6	0.3	0.0	0.8	6.0
30.....	1.6	.....	3.2	2.4	8.4	1.4	0.4	0.5	0.2	0.0	0.8	10.8
31.....	1.4	.....	2.8	.....	6.3	.....	0.3	0.4	.....	0.0	.....	6.6
<b>Means.</b>	<b>2.2</b>	<b>.....</b>	<b>4.5</b>	<b>5.4</b>	<b>3.5</b>	<b>2.0</b>	<b>0.6</b>	<b>0.4</b>	<b>0.4</b>	<b>0.1</b>	<b>0.4</b>	<b>3.9</b>
<b>1902</b>												
1.....	4.5	Frozen.	21.0	3.7	2.4	1.4	8.9	2.0	0.1	0.2	0.7	1.8
2.....	3.4	.....	13.5	3.2	1.9	1.2	6.4	1.5	0.1	0.2	0.7	1.7
3.....	2.9	.....	11.5	3.0	1.8	1.1	3.6	1.4	0.1	0.7	0.6	2.0
4.....	2.4	.....	7.3	3.0	2.5	1.1	3.2	1.2	0.0	0.9	0.6	4.4
5.....	2.0	.....	5.5	4.2	2.1	1.0	2.9	1.4	0.0	0.9	0.5	3.3
6.....	1.9	.....	4.8	4.8	1.9	0.8	2.2	1.2	0.0	1.6	0.5	2.8
7.....	1.4	.....	3.8	8.0	1.7	0.7	1.9	1.6	0.1	1.5	0.5	2.4
8.....	1.0	.....	3.1	8.0	1.7	0.8	1.7	1.4	0.1	1.1	0.7	2.0
9.....	1.0	.....	4.5	7.8	1.5	1.4	3.5	1.2	0.1	0.8	0.5	2.1
10.....	1.6	.....	6.5	8.5	1.4	1.0	3.0	1.0	0.1	0.6	0.5	1.8
11.....	1.6	.....	6.5	9.5	1.3	0.8	3.3	0.9	0.1	0.6	0.5	2.2
12.....	1.4	.....	8.0	12.9	1.2	0.7	2.5	0.7	0.1	2.5	0.5	10.9
13.....	1.1	.....	9.5	11.0	1.1	0.8	1.9	1.0	0.1	5.0	0.5	10.5
14.....	1.0	.....	10.5	9.4	1.1	1.1	1.6	0.9	0.1	3.2	0.4	9.7
15.....	1.0	.....	7.2	6.2	1.0	0.8	1.3	0.8	0.1	2.1	0.7	6.9
16.....	1.4	.....	5.7	5.1	1.0	0.7	1.0	0.7	0.0	1.8	0.6	5.9
17.....	1.4	.....	7.7	4.7	0.9	0.7	0.9	0.6	0.0	1.4	0.6	10.7
18.....	1.7	.....	7.0	4.2	0.8	0.7	0.8	0.5	0.0	1.2	0.5	7.3
19.....	1.2	.....	5.1	3.6	0.8	0.9	1.0	0.5	0.0	1.0	0.4	5.0
20.....	1.8	.....	3.9	3.1	0.9	0.9	1.4	0.5	0.0	0.9	0.5	3.9
21.....	1.8	.....	3.3	2.7	2.9	0.7	2.6	0.6	0.0	0.8	0.5	3.4
22.....	2.6	.....	3.0	2.4	2.1	0.7	1.6	0.5	0.0	0.7	0.5	4.7
23.....	3.5	.....	2.8	2.1	1.6	0.7	1.2	0.5	0.0	0.6	0.6	6.0
24.....	3.3	.....	2.6	1.9	1.4	0.7	1.0	0.5	0.0	0.6	0.7	4.6
25.....	2.9	.....	2.5	1.7	1.5	0.6	2.1	0.5	0.1	0.5	0.9	3.7
26.....	2.7	.....	2.3	1.5	1.7	0.6	1.5	0.4	0.0	0.5	1.9	3.1
27.....	3.7	.....	2.1	1.4	1.8	1.1	1.7	0.4	0.0	0.6	3.8	2.6
28.....	8.0	22.0	1.9	1.3	2.9	1.1	1.1	0.3	0.1	0.6	3.0	2.1
29.....	8.5	.....	2.2	1.3	2.5	0.9	1.2	0.2	0.2	0.6	2.3	1.8
30.....	10.5	.....	3.5	1.8	2.1	1.1	1.6	0.1	0.2	0.6	1.9	8.0
31.....	Frozen.	.....	3.5	.....	1.7	.....	2.6	0.1	.....	0.7	.....	Frozen.
<b>Means.</b>	<b>2.8</b>	<b>.....</b>	<b>5.9</b>	<b>4.7</b>	<b>1.7</b>	<b>0.9</b>	<b>2.3</b>	<b>0.8</b>	<b>0.1</b>	<b>1.1</b>	<b>0.9</b>	<b>4.6</b>

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—YOUGHIOGHENY RIVER, WEST NEWTON, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	Frozen.	6.4	15.4	2.7	1.4	1.3	5.6	0.5	1.1	0.0	0.3	0.3
2.....		5.4	8.7	2.7	1.2	1.1	3.6	0.4	0.8	0.0	0.2	0.3
3.....	10.7	8.7	5.7	2.3	1.0	1.0	2.7	0.3	0.7	0.0	0.2	0.3
4.....	9.5	8.0	4.5	2.3	1.1	0.9	2.2	1.0	0.6	0.0	0.2	0.3
5.....	7.0	11.6	3.8	2.5	1.4	0.8	1.9	0.9	0.5	0.1	0.2	0.5
6.....	5.0	7.1	3.7	2.3	1.4	0.7	9.1	0.9	0.4	0.1	0.4	0.5
7.....	4.0	4.9	3.6	2.1	1.2	0.6	5.9	0.8	0.4	0.1	0.6	0.5
8.....	3.3	3.9	4.6	2.3	1.1	1.0	3.4	0.7	0.3	0.7	0.9	0.5
9.....	2.9	3.8	7.7	7.0	1.0	1.5	2.5	0.7	0.5	1.5	0.8	0.4
10.....	2.2	3.2	7.2	6.0	1.0	1.1	2.0	0.5	1.4	1.8	0.7	0.4
11.....	1.8	2.9	5.4	4.3	1.0	1.0	1.8	0.6	1.6	1.2	0.6	0.4
12.....	2.5	3.4	4.6	4.0	0.9	0.9	1.7	0.4	1.1	0.8	0.5	Frozen.
13.....	2.0	4.5	3.9	6.0	0.9	1.3	2.8	0.3	0.8	0.7	0.4	
14.....	Frozen.	3.8	3.3	5.1	0.8	2.3	5.1	0.2	0.7	0.7	0.4	
15.....		3.3	2.9	5.2	0.8	4.9	4.2	0.2	0.5	0.6	0.4	
16.....		10.5	2.6	5.4	0.7	4.1	3.2	0.2	0.4	0.6	0.4	
17.....		11.2	2.3	6.8	0.7	2.9	2.6	0.2	0.4	0.5	1.0	
18.....		7.0	2.2	5.0	0.6	2.1	2.1	0.1	0.7	0.6	3.1	
19.....		5.0	2.1	4.0	0.6	2.0	3.5	0.1	0.5	0.7	2.7	
20.....	Frozen.	1.9	3.4	0.5	1.8	2.8	0.6	0.5	0.9	0.9	1.8	
21.....			2.0	2.9	0.5	2.0	2.7	0.5	0.4	0.7	1.4	
22.....			2.6	2.5	0.4	2.9	2.7	0.4	0.3	0.6	1.1	
23.....			3.2	2.2	0.6	2.6	2.3	0.5	0.2	0.5	0.9	
24.....			10.6	2.0	0.6	5.6	1.8	0.4	0.2	0.5	0.7	
25.....			6.9	1.9	1.6	4.0	1.6	0.3	0.2	0.4	0.5	
26.....			4.8	2.0	2.3	2.8	1.3	0.5	0.2	0.4	0.5	5.5
27.....			3.8	2.1	1.9	2.3	1.1	0.5	0.1	0.3	0.5	Frozen.
28.....		11.0	3.2	1.8	1.8	2.3	1.0	0.4	0.1	0.4	0.4	
29.....	14.5		2.8	1.6	1.7	3.0	0.9	0.6	0.1	0.4	0.4	
30.....	10.0		2.3	1.4	1.6	7.3	0.8	0.8	0.1	0.3	0.4	
31.....	10.6		2.7		1.4		0.6	1.0		0.3		
Means.....		6.3	4.5	3.4	1.1	2.3	2.8	0.5	0.5	0.5	0.8	
<b>1904</b>												
1.....	Frozen.	1.9	17.0	3.5	4.4	1.7	1.0	0.4	0.3	0.0	0.0	0.0
2.....		1.8	9.0	6.4	4.2	1.6	0.9	0.4	0.2	0.0	0.0	0.0
3.....		2.0	6.6	4.9	3.5	1.6	0.8	2.2	0.1	0.0	0.0	0.0
4.....	Frozen.		11.8	3.8	2.9	1.4	0.8	1.3	0.1	0.0	0.0	0.0
5.....			6.7	3.0	2.5	1.2	0.8	1.0	0.1	0.0	0.0	0.0
6.....			4.3	2.7	2.2	1.5	0.8	0.8	0.1	0.0	0.0	0.0
7.....			6.0	2.4	2.0	1.8	1.3	0.8	0.1	0.0	0.0	0.0
8.....		10.4	8.9	2.3	2.0	1.8	2.0	0.7	0.0	0.0	0.0	0.0
9.....		6.0	6.7	2.2	1.9	1.6	1.6	0.6	0.0	0.0	0.0	0.0
10.....		5.0	4.6	2.3	1.8	1.8	1.4	0.5	0.0	0.0	0.0	0.0
11.....		4.0	3.7	2.3	1.6	1.8	2.7	0.5	0.0	0.0	0.0	0.0
12.....		3.5	3.8	2.1	1.4	1.6	1.8	0.4	0.0	0.0	0.0	Frozen.
13.....		3.0	3.5	2.0	1.3	1.2	1.4	0.4	0.0	0.0	0.0	
14.....		4.5	3.2	2.0	1.1	1.1	1.3	0.5	0.0	0.0	0.0	
15.....		4.7	2.8	1.8	1.3	1.0	1.1	0.4	0.0	0.0	0.0	
16.....	Frozen.		2.4	1.7	1.7	1.0	0.9	0.5	0.0	0.0	0.0	
17.....			2.0	1.6	1.5	0.9	0.8	0.5	0.0	0.0	0.0	
18.....			2.0	1.5	1.3	0.9	0.7	0.3	0.0	0.0	0.0	
19.....			2.3	1.4	5.5	0.8	0.5	0.3	0.0	0.0	0.0	
20.....			2.5	1.7	6.0	0.8	0.4	0.4	0.0	0.0	0.0	
21.....			3.5	1.6	4.5	0.7	0.4	0.6	0.0	0.0	0.0	
22.....	a 18.0		3.5	1.5	3.7	1.1	1.7	0.8	0.0	0.0	0.0	
23.....	16.5	11.0	6.5	1.4	3.2	1.5	0.9	0.7	0.0	0.0	0.0	
24.....	10.0	13.6	9.2	1.3	2.8	1.2	1.7	0.6	0.0	0.0	0.0	
25.....	7.0	14.0	6.2	1.2	2.3	1.0	1.3	0.5	0.0	0.0	0.0	2.5
26.....	5.2	Frozen.	4.8	1.9	2.2	0.8	1.0	0.5	0.0	0.0	0.0	3.9
27.....	3.5		4.3	3.3	2.4	0.8	0.8	0.7	0.0	0.0	0.0	3.0
28.....	3.0		3.7	4.2	2.8	0.7	0.8	0.5	0.0	0.0	0.0	4.5
29.....	2.5	12.8	3.0	5.5	2.4	0.6	0.7	0.4	0.0	0.0	0.0	3.8
30.....	2.0		2.6	4.6	2.0	0.5	0.6	0.3	0.0	0.0	0.0	2.5
31.....	2.0		2.2		1.8		0.5	0.3		0.0		1.9
Means.....		6.5	5.1	2.6	2.6	1.2	1.1	0.6	0.0	0.0	0.0	1.2

a 22.0 at noon.

## OHIO RIVER SYSTEM—MONONGAHELA RIVER, WESTON, W. VA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	Frozen.	Frozen.	9.0	0.5	-0.4	0.0	2.0	-0.3	-1.0	-1.8	-0.5	0.1
2.....			5.0	0.2	-0.5	0.0	0.8	-0.3	-1.3	-1.8	-0.5	0.0
3.....			1.0	0.5	-0.5	-0.5	0.2	-0.5	-1.3	-1.6	-0.5	0.0
4.....		0.9	0.6	0.6	-0.5	-0.9	0.0	-0.5	-1.6	-1.6	0.7	0.3
5.....		3.5	0.6	0.3	-0.7	-0.9	0.0	-0.8	-1.6	-1.6	0.2	5.2
6.....	-0.6	1.3	0.6	0.1	-0.8	-0.9	1.5	-0.8	-1.6	-1.6	0.0	1.6
7.....	-0.4	1.6	0.4	0.0	-0.8	-1.0	0.7	-0.8	-1.6	-1.6	0.0	0.9
8.....	0.0	3.8	0.2	0.0	-0.8	-0.6	0.5	-0.8	-1.9	-1.3	0.0	1.4
9.....	0.2	3.2	0.1	0.0	-0.2	-0.3	0.5	-0.8	-1.9	-1.3	-0.3	1.1
10.....	0.0	1.3	0.0	0.0	0.2	-0.5	0.0	-1.0	-1.9	-1.3	-0.3	0.5
11.....	0.0	0.7	0.0	0.0	0.0	-0.5	0.0	-1.0	-2.0	-1.3	-0.4	0.2
12.....	0.8	0.3	0.0	0.0	0.0	-0.5	-0.2	-1.0	-2.0	-1.3	0.0	0.0
13.....	0.6	6.4	0.0	0.0	-0.1	-0.5	0.4	-1.0	-2.0	-1.4	0.0	0.0
14.....	0.3	4.0	0.0	0.3	-0.2	-0.5	0.0	-1.0	-2.0	-0.8	0.0	0.0
15.....	0.0	1.4	0.0	0.5	-0.4	-0.5	-0.3	-1.0	-2.0	-0.8	-0.2	0.0
16.....	0.0	0.5	0.0	0.7	-0.4	-0.2	-0.3	-0.7	-2.0	-0.5	-0.5	-0.2
17.....	0.0	0.2	0.0	0.7	-0.4	1.6	-0.3	-0.7	-1.7	-0.5	-0.5	-0.2
18.....	0.1	0.2	0.0	0.9	-0.4	0.8	-0.6	-0.7	-1.7	-0.5	-0.6	-0.2
19.....	0.8	0.0	4.2	0.0	0.6	0.5	-0.2	-0.2	-1.7	-0.5	-0.6	-0.2
20.....	2.4	0.0	4.9	0.0	1.2	0.2	0.0	-0.3	-1.7	-0.5	-0.6	-0.3
21.....	3.5	0.0	1.5	0.0	0.5	0.0	-0.4	-0.1	-1.7	-0.7	1.1	-0.3
22.....	0.8	2.8	0.7	0.0	0.0	0.0	-0.7	0.6	-1.7	-0.8	1.5	-0.5
23.....	0.4	3.5	0.4	0.4	0.0	-0.4	-0.7	0.0	-1.6	-0.6	1.3	-0.5
24.....	0.2	1.4	0.0	0.2	-0.2	-0.6	-0.7	-0.6	-1.6	0.4	1.3	-0.5
25.....	0.0	1.8	0.0	0.0	-0.2	0.0	-0.8	-0.2	-1.6	0.3	2.5	-0.5
26.....	0.0	0.7	0.0	0.0	-0.2	0.3	-0.5	-0.6	-1.6	0.0	12.3	-0.5
27.....	0.0	0.7	0.0	-0.3	-0.5	0.0	1.6	-0.6	-1.8	0.0	4.0	-0.5
28.....	0.0	0.2	0.0	-0.3	-0.5	-0.2	0.7	-0.6	-1.8	-0.3	1.2	-0.5
29.....	0.0		0.0	-0.4	-0.1	0.0	0.0	-0.6	-1.8	-0.3	0.5	0.0
30.....	0.0		0.3	-0.4	-0.5	4.8	0.0	-0.8	-1.8	-0.5	0.3	0.0
31.....	0.0		0.8		-0.2		0.0	-0.8		-0.5		0.5
<b>Means.</b>	<b>0.3</b>	<b>1.6</b>	<b>1.0</b>	<b>0.2</b>	<b>-0.2</b>	<b>0.0</b>	<b>0.1</b>	<b>-0.6</b>	<b>-1.7</b>	<b>-0.9</b>	<b>0.7</b>	<b>0.2</b>
<b>1901</b>												
1.....	1.5	0.7	0.0	0.0	0.0	0.5	0.0	-0.4	0.0	-0.2	-0.5	0.0
2.....	0.7	0.3	0.0	0.0	0.0	0.4	-0.3	-0.4	0.0	-0.2	-0.5	0.0
3.....	0.3	0.2	0.0	8.7	0.0	0.0	-0.4	-0.5	0.0	-0.2	-0.5	0.2
4.....	0.0	6.6	0.0	11.2	0.0	0.0	-0.4	-0.5	0.0	0.0	-0.5	1.5
5.....	0.0	2.6	4.2	4.0	0.0	0.0	-0.3	-0.6	0.0	0.0	-0.5	0.6
6.....	0.0	0.7	1.6	1.6	0.0	0.0	0.0	-0.6	0.0	0.0	-0.5	0.0
7.....	0.0	0.5	0.4	1.2	-0.1	0.7	1.4	-0.6	-0.2	-0.1	-0.5	0.0
8.....	0.0	0.1	0.2	0.8	-0.1	0.9	1.0	-0.6	-0.2	-0.2	-0.5	0.0
9.....	0.0	0.3	0.4	0.5	-0.1	0.7	0.4	-0.6	-0.2	-0.2	-0.5	0.0
10.....	0.0	0.6	1.6	0.3	0.0	0.2	0.0	-0.6	-0.3	-0.2	-0.5	1.4
11.....	0.3	0.3	1.0	0.1	0.0	0.0	0.0	-0.2	-0.1	-0.2	-0.5	0.6
12.....	3.3	0.1	0.7	0.0	0.0	0.0	-0.1	-0.1	-0.1	-0.3	-0.4	0.3
13.....	1.6	0.0	0.5	0.0	0.6	0.0	-0.2	-0.1	0.0	-0.3	-0.3	0.0
14.....	0.7	0.0	0.3	0.4	0.4	0.0	-0.3	-0.3	0.0	-0.3	-0.2	0.0
15.....	0.4	0.0	0.0	4.4	0.0	0.0	-0.4	-0.1	0.0	-0.3	-0.2	12.9
16.....	0.0	0.0	0.0	1.7	0.0	0.0	-0.4	-0.1	0.0	-0.3	0.0	1.8
17.....	0.0	0.0	0.0	1.0	0.0	0.5	0.0	-0.1	0.2	-0.3	0.0	0.7
18.....	0.0	0.0	0.0	0.6	0.0	0.0	-0.2	-0.1	0.6	-0.4	0.0	0.3
19.....	0.0	0.0	0.0	0.4	0.0	0.0	-0.2	-0.1	0.5	-0.4	0.0	0.0
20.....	-0.2	0.0	0.0	4.5	0.0	0.0	-0.3	-0.1	0.2	-0.4	-0.1	0.0
21.....	0.0	-0.2	2.5	5.0	0.0	-0.2	-0.3	-0.1	0.0	-0.4	-0.1	0.0
22.....	1.0	-0.2	1.4	2.9	0.9	-0.2	-0.3	-0.3	0.0	-0.4	-0.1	0.0
23.....	1.2	-0.2	0.6	3.2	3.4	1.0	-0.3	-0.3	-0.2	-0.4	0.0	0.0
24.....	0.6	-0.2	0.4	1.7	0.7	1.3	-0.3	-0.1	-0.2	-0.4	2.2	0.0
25.....	0.4	-0.2	0.2	4.2	0.3	0.4	-0.3	-0.1	-0.2	-0.4	2.4	1.7
26.....	0.4	0.0	0.0	1.4	0.2	0.4	-0.3	-0.1	-0.2	-0.4	2.4	3.5
27.....	0.4	0.0	4.0	0.7	6.8	0.7	-0.3	-0.3	-0.2	-0.4	0.8	5.3
28.....	0.4	0.0	1.6	0.4	5.1	0.0	-0.4	-0.3	-0.4	-0.5	0.2	1.8
29.....	0.4		0.6	0.2	2.3	0.0	-0.4	-0.3	-0.2	-0.5	0.0	11.0
30.....	0.3		0.4	0.0	2.2	0.0	-0.4	-0.3	-0.2	-0.5	0.0	7.1
31.....	0.5		0.2		1.3		-0.4	0.0		-0.5		1.5
<b>Means.</b>	<b>0.5</b>	<b>0.4</b>	<b>0.7</b>	<b>2.0</b>	<b>0.8</b>	<b>0.2</b>	<b>-0.1</b>	<b>-0.3</b>	<b>0.0</b>	<b>-0.3</b>	<b>0.0</b>	<b>1.7</b>

## OHIO RIVER SYSTEM—MONONGAHELA RIVER, WESTON, W. VA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	0.5	3.3	3.5	1.0	0.0	0.0	2.4	-0.1	-0.6	-0.5	-0.2	3.0
2.....	0.1	3.8	1.2	1.3	0.0	0.0	0.7	0.0	-0.6	-0.5	-0.2	3.5
3.....	0.0	3.1	2.0	1.0	0.0	-0.2	-0.3	0.0	-0.6	-0.4	-0.2	3.9
4.....	0.0	0.7	0.9	2.0	0.0	-0.2	0.0	0.0	-0.6	-0.3	-0.4	3.7
5.....	0.0	0.5	0.6	1.2	0.0	-0.2	0.0	-0.1	-0.6	-0.3	-0.4	3.8
6.....	0.0	0.5	0.8	0.8	0.0	-0.2	0.0	-0.1	-0.8	-0.3	-0.4	2.2
7.....	0.0	0.2	0.4	1.1	0.0	-0.2	0.0	-0.2	-0.7	-0.3	0.3	2.6
8.....	0.0	0.2	1.2	1.3	0.0	-0.2	-0.4	-0.3	-0.8	-0.4	0.0	2.8
9.....	0.0	0.2	8.3	2.6	0.0	-0.2	0.0	-0.3	-0.8	-0.5	0.0	2.8
10.....	0.0	0.0	4.0	4.4	-0.2	-0.2	-0.6	-0.2	-0.8	-0.5	-0.2	2.6
11.....	0.0	0.0	1.4	8.0	-0.2	-0.3	-0.2	-0.3	-0.8	-0.6	-0.2	2.8
12.....	0.0	0.0	0.7	3.4	-0.2	-0.3	0.0	-0.3	-1.0	0.3	-0.5	5.9
13.....	0.0	0.0	1.8	1.0	-0.2	-0.3	0.0	-0.3	-1.0	2.8	-0.7	7.0
14.....	0.0	0.0	1.5	0.7	0.0	-0.4	0.0	-0.3	-1.0	3.0	-0.9	5.2
15.....	-0.1	0.0	0.7	0.4	0.0	-0.4	0.0	-0.3	-1.0	1.1	-1.0	4.0
16.....	-0.1	0.0	0.7	0.4	0.0	-0.5	-0.2	-0.5	-1.0	0.4	-1.2	11.0
17.....	0.0	0.0	3.2	0.1	0.0	0.0	0.2	-0.5	-1.1	0.8	-1.2	6.0
18.....	0.0	0.0	1.2	0.0	-0.2	0.0	0.3	-0.5	-1.1	0.2	-1.2	4.0
19.....	0.0	0.0	0.0	0.0	-0.2	0.2	0.6	-0.7	-1.2	-0.2	-1.0	3.4
20.....	0.0	0.0	0.3	0.0	0.4	0.1	2.2	-0.7	-1.2	-0.4	-1.0	2.0
21.....	0.0	0.0	0.1	0.0	0.0	0.5	1.0	-0.7	-1.2	-0.8	-1.2	2.3
22.....	0.4	0.4	0.0	0.0	-0.1	0.7	0.4	-0.1	-1.2	-0.9	-1.2	2.4
23.....	0.6	0.2	0.0	0.0	0.0	0.2	0.2	-0.1	-1.2	-0.9	0.0	2.3
24.....	0.4	2.3	0.0	0.0	0.0	0.0	0.0	-0.2	-1.2	-1.0	0.0	2.3
25.....	0.5	4.3	0.0	0.0	0.2	0.0	0.0	-0.2	-1.1	-1.2	1.8	2.4
26.....	0.7	5.7	0.0	0.0	2.0	3.3	0.0	-0.3	-1.1	-1.2	6.3	2.4
27.....	11.2	2.2	0.0	0.0	0.6	1.6	-0.2	-0.4	-0.9	-1.2	3.0	Frozen.
28.....	4.5	4.1	0.0	-0.2	0.4	0.6	-0.2	-0.4	-0.8	1.0	2.8	.....
29.....	1.4	.....	0.6	0.0	0.2	1.8	-0.3	-0.4	-0.8	0.0	2.6	.....
30.....	4.2	.....	1.0	0.2	0.0	0.9	-0.3	-0.5	-0.8	0.0	2.6	4.0
31.....	2.0	.....	0.5	.....	0.0	.....	-0.1	-0.5	.....	0.0	.....	3.8
<b>Means.</b>	<b>0.8</b>	<b>1.1</b>	<b>1.2</b>	<b>1.0</b>	<b>0.1</b>	<b>0.2</b>	<b>0.2</b>	<b>-0.3</b>	<b>-0.9</b>	<b>-0.2</b>	<b>0.2</b>	<b>3.7</b>
<b>1903</b>												
1.....	3.8	3.8	6.0	3.7	3.4	2.0	0.2	-0.3	-0.9	-1.3	-1.4	-1.2
2.....	3.4	4.8	5.4	3.5	3.3	2.0	0.0	-0.2	-0.9	-1.3	-1.4	-1.2
3.....	6.0	4.2	5.0	3.4	3.3	1.4	0.0	-0.3	-1.0	-1.3	-1.5	-1.2
4.....	4.3	5.1	4.5	3.6	3.6	1.2	-0.2	-0.5	-1.0	-1.2	-1.5	-1.2
5.....	3.9	6.7	4.0	3.5	3.5	1.7	-0.3	-0.8	-1.1	-1.3	-1.5	-1.2
6.....	4.1	5.6	4.1	3.4	3.4	2.2	0.1	-0.8	-1.1	-1.1	-1.4	-1.2
7.....	3.4	5.0	4.3	3.5	3.4	2.6	0.0	-0.7	-1.2	-1.4	-1.4	-1.3
8.....	3.6	4.3	4.2	4.3	3.3	2.8	-0.2	-0.8	-1.2	-1.1	-1.5	-1.3
9.....	Frozen.	4.3	5.2	5.2	3.3	2.8	-0.3	-0.9	-1.2	-1.2	-1.5	-1.3
10.....	.....	4.2	4.6	4.3	3.3	3.0	-0.4	-0.9	-1.1	-1.2	-1.6	-1.2
11.....	.....	4.5	4.8	3.5	3.2	2.9	-0.3	-1.0	-1.0	-1.2	-1.6	-1.2
12.....	5.2	4.8	4.5	3.5	3.2	2.4	-0.3	-1.0	-1.0	-1.2	-1.5	-1.2
13.....	4.6	4.3	4.0	3.6	2.5	2.4	-0.1	-1.1	-1.2	-1.2	-1.5	-1.1
14.....	4.2	3.9	3.8	4.0	2.4	1.8	-0.3	-1.1	-1.2	-1.3	-1.5	-1.2
15.....	3.8	4.1	3.5	5.5	2.2	2.0	-0.4	-1.1	-1.2	-1.3	-1.6	-1.2
16.....	3.4	8.0	3.4	6.6	2.3	1.2	-0.4	-1.2	-1.3	-1.3	-1.6	-1.2
17.....	3.0	7.0	3.5	6.4	1.0	0.7	-0.6	-1.2	-1.3	-1.3	-1.4	-1.2
18.....	3.0	6.0	3.5	5.8	0.4	0.4	-0.6	-1.2	-1.1	-1.2	-0.1	-1.2
19.....	2.9	4.5	3.4	5.0	0.1	0.2	-0.8	-1.2	-1.2	-1.3	-0.5	-1.2
20.....	2.8	Frozen.	3.0	4.3	0.1	0.2	-0.8	-1.2	-1.2	-1.3	-0.5	-1.1
21.....	4.5	.....	3.6	4.5	0.0	0.5	-0.7	-1.3	-1.2	-1.3	-0.6	-1.1
22.....	4.6	.....	4.6	4.3	0.3	0.4	-0.7	-1.3	-1.3	-1.3	-0.7	-1.1
23.....	4.2	.....	10.0	4.0	1.0	1.0	-0.9	-1.3	-1.3	-1.3	-0.8	-0.2
24.....	3.8	.....	7.0	3.8	1.5	0.6	-0.9	-1.3	-1.3	-1.3	-0.7	-0.3
25.....	3.7	.....	5.0	4.0	1.7	0.5	-1.0	-1.3	-1.3	-1.3	-0.8	0.8
26.....	3.5	.....	4.0	4.2	9.5	0.4	-1.0	-1.1	-1.3	-1.3	-0.8	1.0
27.....	3.3	4.0	3.9	4.5	4.0	0.2	-1.1	-1.1	-1.3	-1.3	-1.2	1.0
28.....	4.0	a 12.8	3.7	4.0	4.5	0.6	-1.0	-1.0	-1.3	-1.3	-1.2	0.9
29.....	3.5	.....	3.5	3.8	3.0	0.4	-1.1	-0.9	-1.3	-1.3	-1.2	0.8
30.....	3.4	.....	3.7	3.4	3.5	0.4	-0.9	-0.8	-1.3	-1.4	-1.2	0.9
31.....	3.2	.....	3.8	.....	3.0	.....	-0.6	-0.8	.....	-1.4	.....	0.9
<b>Means.</b>	<b>3.8</b>	<b>5.3</b>	<b>4.4</b>	<b>4.2</b>	<b>2.7</b>	<b>1.4</b>	<b>-0.5</b>	<b>-1.0</b>	<b>-1.2</b>	<b>-1.3</b>	<b>-1.2</b>	<b>-0.7</b>

a Maximum stage, 14.0.



## OHIO RIVER SYSTEM—MONONGAHELA RIVER, WESTON, W. VA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	1.0	-0.2	1.1	0.3	0.4	0.1	0.2	-0.6	-1.9	-2.2	-2.4	-2.4
2.....	1.2	-0.2	0.7	0.1	0.4	0.1	0.4	-0.6	-1.9	-2.4	-2.4	-2.4
3.....	1.5	-0.1	0.6	-0.1	0.2	0.2	0.2	-0.7	-1.9	-2.4	-2.4	-2.4
4.....	1.1	-0.1	1.0	-0.2	0.2	0.0	0.1	-0.7	-1.9	-2.4	-2.4	-2.4
5.....	1.0	-0.2	0.9	-0.2	0.0	0.0	0.0	-0.7	-1.9	-2.4	-2.4	-2.4
6.....	1.0	-0.3	0.6	-0.3	-0.1	0.1	0.2	-0.7	-1.9	-2.4	-2.4	-2.4
7.....	0.9	-0.2	1.1	-0.3	-0.2	0.2	0.0	-0.8	-1.9	-2.4	-2.4	-2.4
8.....	0.9	1.0	1.2	-0.3	-0.2	0.3	-0.1	-0.8	-1.9	-2.4	-2.4	-2.4
9.....	1.0	0.6	0.9	-0.3	-0.2	0.3	-0.2	-0.9	-1.9	-2.4	-2.4	-2.4
10.....	1.0	0.1	0.6	-0.4	-0.2	0.3	0.0	-0.9	-2.0	-2.4	-2.4	-2.4
11.....	0.9	0.1	0.2	-0.2	-0.3	0.2	-0.1	-0.9	-2.0	-2.4	-2.4	-2.4
12.....	1.0	-0.2	0.3	-0.2	-0.3	0.1	-0.2	-0.9	-2.0	-2.4	-2.4	-2.4
13.....	1.1	-0.2	0.3	-0.2	-0.3	-0.1	-0.2	-1.1	-2.0	-2.4	-2.4	Frozen.
14.....	1.2	-0.2	0.1	-0.3	-0.2	-0.2	-0.2	-1.2	-2.0	-2.4	-2.4	.....
15.....	1.3	0.0	-0.2	-0.1	-0.2	-0.2	-0.3	-1.4	-2.0	-2.4	-2.4	.....
16.....	1.4	-0.1	-0.2	0.1	-0.2	-0.2	-0.3	-1.6	-2.0	-2.4	-2.4	.....
17.....	1.7	-0.2	-0.1	-0.1	-0.2	-0.2	-0.3	-1.6	-2.0	-2.4	-2.4	.....
18.....	1.4	-0.2	-0.2	-0.1	-0.2	-0.3	-0.4	-1.8	-2.0	-2.4	-2.4	.....
19.....	1.3	0.1	-0.3	-0.2	-0.3	-0.3	-0.4	-1.8	-2.2	-2.4	-2.4	.....
20.....	1.4	0.0	-0.3	-0.2	0.3	-0.3	-0.4	-1.8	-2.2	-2.4	-2.4	.....
21.....	1.7	0.0	-0.1	-0.2	0.3	-0.3	-0.5	-1.8	-2.2	-2.4	-2.4	.....
22.....	1.7	0.2	-0.2	-0.2	0.1	0.1	-0.5	-1.9	-2.2	-2.4	-2.4	.....
23.....	1.1	0.6	5.9	-0.3	0.1	-0.2	-0.5	-1.9	-2.2	-2.4	-2.4	.....
24.....	0.9	0.4	1.2	-0.2	0.3	-0.2	-0.6	-1.9	-2.2	-2.4	-2.4	.....
25.....	0.7	0.2	0.7	0.0	-0.1	-0.2	-0.2	-0.2	-2.2	-2.4	-2.4	1.0
26.....	0.6	0.0	0.8	0.3	-0.1	-0.3	-0.4	-0.6	-2.2	-2.4	-2.4	0.0
27.....	0.6	-0.1	0.1	1.5	0.1	-0.3	-0.4	-0.9	-2.2	-2.4	-2.4	0.1
28.....	0.4	0.3	-0.2	1.7	0.0	-0.3	-0.4	-1.3	-2.2	-2.4	-2.4	0.1
29.....	0.4	1.0	-0.2	0.7	-0.1	0.0	-0.4	-1.6	-2.2	-2.4	-2.4	0.0
30.....	0.1	.....	-0.2	0.7	-0.2	0.1	-0.5	-1.7	-2.2	-2.4	-2.4	-0.2
31.....	0.1	.....	0.0	.....	0.0	.....	-0.5	-1.8	.....	-2.4	.....	-0.4
Means.	1.0	-0.1	0.5	0.0	0.0	0.0	-0.2	-1.2	-2.0	-2.4	-2.4	-1.5

## OHIO RIVER SYSTEM—MONONGAHELA RIVER, FAIRMONT, W. VA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	1.8	1.3	6.2	3.9	0.8	0.9	1.7	1.6	0.1	-0.7	0.8	3.0
2.....	1.8	1.3	15.2	2.8	0.7	0.9	2.5	1.4	0.1	-0.7	0.8	2.4
3.....	1.6	1.3	9.8	2.8	0.7	1.0	2.2	1.2	0.0	-0.7	0.7	2.0
4.....	1.6	1.3	5.4	2.6	0.7	1.2	1.8	1.0	0.0	-0.7	0.6	1.7
5.....	1.5	2.8	3.8	2.3	0.6	1.3	1.4	1.0	0.0	-0.7	0.6	10.3
6.....	1.5	5.8	2.0	2.0	0.6	1.3	1.1	0.8	0.0	-0.7	0.6	8.2
7.....	1.5	5.1	2.0	1.6	0.6	1.3	0.9	0.5	-0.1	-0.7	0.6	5.7
8.....	1.7	5.9	2.0	1.4	0.5	1.2	0.6	0.3	-0.3	-0.7	0.8	3.6
9.....	1.8	10.2	1.8	1.3	0.8	1.2	0.6	0.1	-0.4	-0.7	0.8	4.0
10.....	1.8	6.8	1.7	1.1	0.9	1.2	0.6	0.0	-0.4	-0.7	0.9	3.8
11.....	1.8	4.7	1.6	1.0	1.0	1.2	0.6	-0.1	-0.5	-0.7	0.9	3.2
12.....	8.3	3.8	1.6	1.0	1.0	1.0	0.5	-0.2	-0.5	-0.7	0.9	2.5
13.....	4.8	5.1	1.5	1.0	1.0	0.9	0.5	-0.2	-0.5	-0.7	0.9	2.0
14.....	3.7	11.2	1.5	0.9	1.0	0.8	0.3	-0.2	-0.5	-0.7	0.8	1.6
15.....	3.2	7.3	1.4	0.9	0.8	0.9	0.2	-0.2	-0.5	-0.6	0.7	1.3
16.....	2.6	5.1	1.4	0.9	0.7	1.0	0.2	-0.2	-0.5	-0.4	0.7	1.0
17.....	2.5	3.8	1.4	0.9	0.7	4.8	0.2	-0.2	-0.5	-0.4	0.7	0.9
18.....	2.5	2.6	1.3	0.9	0.6	7.2	0.2	-0.2	-0.5	-0.4	0.6	0.9
19.....	4.3	2.0	1.8	1.2	0.6	6.1	0.2	-0.2	-0.6	-0.4	0.6	0.9
20.....	4.6	1.7	10.9	1.2	0.8	4.3	0.3	0.0	-0.6	-0.4	0.6	0.9
21.....	6.8	1.6	10.0	1.1	0.8	3.1	0.3	0.0	-0.6	-0.4	1.0	0.9
22.....	6.0	2.4	6.3	1.1	1.4	2.2	0.3	0.2	-0.6	-0.4	2.0	0.8
23.....	4.2	8.3	4.2	1.3	1.4	1.5	0.3	0.5	-0.6	-0.4	2.6	0.8
24.....	3.1	6.1	3.1	1.3	1.3	1.2	0.3	0.5	-0.6	0.4	2.6	0.8
25.....	2.4	5.2	2.3	1.2	1.2	1.0	0.2	0.5	-0.6	1.2	3.8	0.8
26.....	2.2	4.0	1.9	1.0	1.0	1.0	1.5	0.5	-0.6	1.2	<sup>b</sup> 16.3	0.8
27.....	2.0	2.8	1.9	1.0	1.0	0.8	2.1	0.4	-0.6	1.2	19.4	0.8
28.....	1.6	2.0	1.9	1.0	0.8	0.8	3.0	0.3	-0.6	1.1	8.4	0.8
29.....	1.8	.....	1.7	0.9	0.8	1.6	2.1	0.1	-0.6	1.0	5.2	0.8
30.....	1.4	.....	2.8	0.8	0.7	1.6	1.5	0.1	-0.6	1.0	3.8	0.8
31.....	1.3	.....	5.2	.....	0.9	.....	2.3	0.1	.....	1.0	.....	1.4
Means.	2.8	4.3	3.7	1.4	0.9	1.8	1.0	0.3	-0.4	-0.2	2.7	2.2

<sup>a</sup> 6.6 at 4 p. m.<sup>b</sup> 23.9 at 6 p. m.

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—MONONGAHELA RIVER, FAIRMONT, W. VA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	1.6	1.5	1.2	2.9	2.0	3.8	2.8	0.2	1.0	0.8	0.0	1.4
2.....	1.6	1.3	1.3	2.4	1.7	2.8	2.0	0.2	1.0	0.8	0.0	1.4
3.....	1.5	1.3	1.5	2.8	1.5	2.4	1.7	0.2	1.0	0.8	0.0	1.4
4.....	1.5	1.3	2.0	14.5	1.5	1.8	1.6	0.2	1.0	0.8	0.0	5.4
5.....	1.5	7.5	6.3	10.4	1.4	1.6	1.5	0.2	1.0	0.6	0.0	5.1
6.....	1.4	5.0	8.5	8.2	1.4	1.4	1.3	0.2	1.0	0.6	0.0	4.2
7.....	1.3	3.6	5.2	12.6	1.2	1.1	1.0	0.2	1.0	0.6	0.0	3.5
8.....	1.3	2.7	3.1	11.1	1.2	2.0	1.0	0.2	1.0	0.6	0.0	3.0
9.....	1.2	2.0	2.5	7.4	1.3	4.5	2.0	0.4	1.0	0.4	0.0	2.2
10.....	1.2	1.8	7.1	4.8	2.3	3.0	1.8	0.4	0.8	0.4	0.0	2.0
11.....	1.8	1.8	6.9	3.1	2.0	2.2	1.5	0.4	0.8	0.4	0.0	3.5
12.....	2.5	1.8	6.2	2.3	2.0	1.8	1.3	0.4	0.8	0.4	0.0	3.0
13.....	7.8	1.7	5.0	1.8	1.8	1.7	1.3	0.4	0.8	0.4	0.5	2.6
14.....	5.6	1.7	3.9	1.6	1.8	1.7	1.2	0.4	1.0	0.3	0.6	2.1
15.....	4.2	1.5	3.2	10.8	1.8	2.0	1.2	0.4	1.0	0.2	0.8	18.5
16.....	3.6	1.3	2.8	9.1	1.7	2.9	0.8	0.4	1.5	0.2	0.8	12.8
17.....	3.0	1.3	2.4	6.5	1.5	2.4	2.5	0.4	1.5	0.2	0.8	7.2
18.....	2.5	1.1	2.0	4.6	1.3	5.9	2.0	0.4	3.2	0.2	0.9	4.8
19.....	2.0	1.1	1.8	3.2	1.3	4.2	2.0	0.6	2.6	0.2	0.9	3.6
20.....	1.8	1.0	1.8	13.0	1.3	4.0	1.8	0.7	2.0	0.2	0.9	2.8
21.....	1.8	1.0	1.8	10.2	1.2	3.5	1.5	0.8	1.7	0.0	0.9	2.3
22.....	1.8	1.0	3.2	9.8	1.5	2.8	1.3	0.8	1.5	0.0	0.9	2.0
23.....	2.4	0.9	3.0	7.2	5.5	2.0	0.8	0.8	1.4	0.0	0.9	2.0
24.....	2.8	1.2	2.6	6.4	5.7	1.8	0.6	0.8	1.2	0.0	1.3	2.0
25.....	2.8	1.2	2.4	7.8	4.6	3.0	0.4	1.0	1.2	0.0	3.5	2.7
26.....	2.5	1.2	2.1	7.3	3.8	3.0	0.4	1.0	1.0	0.0	3.9	7.1
27.....	2.3	1.2	5.7	6.1	10.3	2.8	0.4	1.0	1.0	0.0	3.2	8.3
28.....	2.0	1.2	5.8	4.8	12.0	3.2	0.4	1.0	0.8	0.0	2.4	6.2
29.....	2.0	.....	4.6	4.0	9.7	3.5	0.4	1.0	0.8	0.0	1.8	10.2
30.....	2.0	.....	3.8	3.1	7.1	3.9	0.4	1.0	0.8	0.0	1.5	17.9
31.....	1.8	.....	3.3	.....	5.4	.....	0.2	1.0	.....	0.0	.....	12.8
<b>Means.</b>	<b>2.4</b>	<b>1.8</b>	<b>3.6</b>	<b>6.7</b>	<b>3.2</b>	<b>2.8</b>	<b>1.3</b>	<b>0.6</b>	<b>1.2</b>	<b>0.3</b>	<b>0.9</b>	<b>5.3</b>
<b>1902</b>												
1.....	7.5	8.5	15.0	4.4	2.0	2.4	7.8	4.8	1.0	2.0	1.5	2.5
2.....	5.2	7.8	9.4	4.1	2.0	2.0	5.0	3.9	1.0	1.4	1.4	2.1
3.....	3.8	6.5	7.2	3.9	2.0	1.8	3.1	3.5	1.0	1.3	1.4	4.7
4.....	3.0	6.0	5.1	3.6	2.0	1.7	2.8	2.8	1.0	1.3	1.4	5.5
5.....	2.5	5.1	3.9	4.0	1.8	1.5	2.5	2.1	0.8	1.1	1.4	5.0
6.....	2.1	4.4	3.8	5.0	1.7	1.5	2.7	1.8	0.8	1.1	1.4	4.3
7.....	2.0	3.2	3.8	4.8	1.5	1.3	2.2	1.6	0.8	1.1	1.4	4.0
8.....	2.0	2.8	3.6	7.7	1.5	1.2	2.0	1.5	0.8	1.1	1.4	4.0
9.....	2.0	2.2	10.1	8.5	1.5	1.2	2.0	1.5	0.8	1.0	1.4	3.5
10.....	2.0	1.8	13.7	10.3	1.5	1.2	2.0	1.5	0.8	1.0	1.4	3.2
11.....	2.0	1.5	9.2	16.4	1.5	1.2	2.0	1.4	0.8	1.0	1.4	5.0
12.....	2.0	1.5	6.4	14.3	1.4	1.2	1.8	1.4	0.8	5.1	1.2	14.5
13.....	1.8	1.5	5.3	11.4	1.4	1.2	1.8	1.4	0.8	3.4	1.2	18.8
14.....	1.6	1.5	6.4	9.1	1.4	1.2	1.8	1.3	0.8	2.5	1.2	13.0
15.....	1.5	1.5	6.0	6.4	1.4	1.2	1.6	1.3	0.8	2.0	1.2	8.4
16.....	1.5	1.5	5.2	4.8	1.4	1.2	1.4	1.3	0.8	1.8	1.2	17.6
17.....	1.5	1.5	4.8	3.8	1.4	1.2	1.4	1.2	0.8	1.6	1.2	15.4
18.....	1.5	1.5	4.8	3.0	1.4	1.2	1.3	1.2	0.8	1.5	1.2	10.8
19.....	1.5	1.5	4.6	2.7	1.4	1.2	1.3	1.2	0.7	1.5	1.7	5.2
20.....	1.5	1.5	3.8	2.5	1.6	1.2	1.5	1.2	0.7	1.5	1.7	3.1
21.....	1.5	1.5	3.6	2.4	1.6	1.2	2.5	1.1	0.7	1.5	1.7	2.5
22.....	1.5	1.5	3.4	2.4	1.6	1.8	2.2	1.1	0.7	1.5	1.6	5.0
23.....	1.5	1.5	3.0	2.2	1.6	2.0	2.0	1.1	0.7	1.4	1.6	5.0
24.....	1.5	6.0	3.0	2.0	1.6	1.8	1.8	1.1	0.7	1.4	1.6	3.6
25.....	1.8	8.8	2.8	2.0	1.6	1.8	1.8	1.3	0.7	1.4	2.1	2.8
26.....	2.0	15.0	2.5	1.8	3.0	2.0	1.6	1.3	0.7	1.4	11.5	2.3
27.....	13.9	12.6	2.2	1.8	5.4	2.9	1.5	1.2	0.8	1.7	9.6	2.0
28.....	16.2	9.7	2.0	1.5	4.8	2.9	1.3	1.2	1.0	1.5	5.2	2.0
29.....	10.1	.....	2.0	1.5	3.9	2.7	1.2	1.1	1.0	1.5	3.9	2.0
30.....	7.4	.....	2.8	1.7	2.8	2.5	1.2	1.0	1.0	1.5	2.8	9.2
31.....	9.7	.....	4.0	.....	2.7	.....	4.3	1.0	.....	1.5	.....	8.0
<b>Means.</b>	<b>3.7</b>	<b>4.3</b>	<b>5.3</b>	<b>5.0</b>	<b>2.0</b>	<b>1.6</b>	<b>2.2</b>	<b>1.6</b>	<b>0.8</b>	<b>1.6</b>	<b>2.3</b>	<b>6.3</b>

## OHIO RIVER SYSTEM—MONONGAHELA RIVER, FAIRMONT, W. VA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	4.8	5.1	19.5	3.0	3.0	2.6	3.9	1.0	1.9	1.3	13.2	9.8
2.....	3.2	7.7	10.8	3.0	2.8	2.5	3.0	1.0	1.9	1.4	13.1	9.0
3.....	9.4	8.2	5.7	3.0	2.8	2.3	2.3	1.0	1.8	1.3	13.1	8.0
4.....	12.0	8.1	4.0	2.9	2.5	2.0	2.0	1.0	1.4	1.3	13.0	7.0
5.....	8.2	11.3	3.5	2.9	2.5	1.5	2.0	1.9	1.3	1.3	12.9	6.4
6.....	5.1	8.6	3.5	3.4	2.5	1.7	1.9	1.8	1.8	1.9	13.1	6.0
7.....	3.8	6.8	3.5	3.2	2.4	3.4	2.0	1.8	1.7	2.5	13.0	5.0
8.....	3.0	5.2	6.8	4.1	2.0	8.0	2.0	1.7	1.7	3.5	13.1	4.8
9.....	2.4	3.8	11.0	10.8	2.0	6.3	2.0	1.7	1.7	4.2	13.1	5.3
10.....	2.0	2.8	8.4	8.1	2.0	4.0	1.8	1.2	1.7	7.7	13.3	6.5
11.....	3.8	2.4	5.8	6.0	2.0	3.5	1.7	1.2	1.7	9.0	13.4	7.2
12.....	9.8	3.0	4.1	4.2	2.0	2.5	1.2	1.2	1.7	9.7	13.5	7.5
13.....	7.5	4.4	3.5	3.7	1.8	2.5	2.7	1.2	1.5	10.0	13.5	8.5
14.....	5.4	4.2	3.5	3.5	1.8	5.0	2.1	1.0	1.5	10.7	13.5	9.1
15.....	4.5	3.6	3.5	3.5	1.7	4.7	2.0	1.0	1.4	11.2	11.4	11.2
16.....	4.2	21.7	3.3	10.4	1.7	4.7	1.8	1.0	1.4	11.5	9.0	13.5
17.....	3.2	14.2	3.2	8.9	1.6	3.5	1.8	1.5	1.4	11.1	7.2	14.5
18.....	3.0	6.8	3.0	6.2	1.3	3.0	1.7	1.5	1.5	11.7	15.0	14.5
19.....	2.0	5.2	3.0	4.6	1.2	2.7	1.6	1.8	1.5	12.1	15.8	14.5
20.....	1.6	4.6	2.5	3.7	1.1	2.5	1.5	1.6	1.3	12.5	15.0	14.5
21.....	3.0	4.6	3.3	3.5	1.0	2.5	1.5	1.5	1.3	12.9	14.5	15.0
22.....	4.6	4.5	6.6	3.5	1.0	2.7	1.8	1.5	1.3	12.7	14.3	15.6
23.....	4.8	4.5	8.0	3.0	1.0	2.7	1.5	1.4	1.3	12.9	14.0	15.9
24.....	3.8	4.5	16.9	3.0	1.6	2.5	1.5	1.4	1.4	13.0	14.0	15.4
25.....	3.0	4.5	9.7	2.8	1.3	2.5	1.4	1.0	1.4	13.1	13.9	15.7
26.....	3.0	4.5	5.6	2.8	2.8	2.3	1.3	1.0	1.4	13.1	13.7	17.4
27.....	2.9	4.5	4.1	2.8	10.5	2.2	1.3	1.4	1.4	13.1	13.2	16.5
28.....	3.3	a 15.5	3.5	3.0	6.4	1.9	1.3	1.2	1.4	13.1	12.4	16.0
29.....	6.5	-----	3.3	3.0	4.4	3.3	1.2	1.2	1.3	13.2	12.0	15.5
30.....	6.3	-----	3.3	3.0	3.5	5.4	1.0	1.0	1.3	13.2	10.8	15.0
31.....	6.6	-----	3.5	-----	2.9	-----	1.0	2.0	-----	13.2	-----	15.0
Means.	4.7	6.6	5.8	4.3	2.5	3.2	1.8	1.3	1.5	9.0	13.0	11.5
<b>1904</b>												
1.....	14.8	15.0	18.4	16.4	17.9	14.9	15.5	14.0	13.7	13.7	12.3	10.7
2.....	14.8	15.0	18.0	17.4	17.0	15.0	16.4	14.0	13.9	13.7	12.3	10.9
3.....	14.8	14.8	17.2	16.9	16.3	15.0	15.6	14.1	13.7	13.5	12.5	10.9
4.....	17.7	14.7	19.5	16.3	16.0	15.0	15.5	14.0	13.7	13.3	12.2	10.7
5.....	17.0	14.8	18.0	15.9	15.9	14.7	15.1	14.0	13.9	13.2	12.2	11.0
6.....	16.0	14.8	17.3	15.7	15.5	14.7	14.9	14.0	13.8	13.0	12.2	11.0
7.....	15.5	15.0	b 17.0	15.6	15.4	15.6	14.9	14.0	13.8	13.0	11.9	11.2
8.....	15.5	20.0	19.5	15.5	15.3	15.5	14.9	14.0	13.7	12.9	11.7	11.2
9.....	15.0	18.8	18.0	15.3	15.0	15.3	15.2	13.9	13.5	12.9	11.6	11.2
10.....	15.0	16.6	16.9	15.2	15.0	15.0	15.5	13.9	13.6	12.7	11.6	11.2
11.....	14.7	16.3	16.3	15.0	15.0	15.0	15.0	14.0	13.6	12.8	11.6	11.2
12.....	14.7	15.5	16.1	15.0	14.8	15.0	15.0	14.0	13.5	12.7	11.3	11.0
13.....	15.0	14.8	16.2	15.1	14.7	14.6	14.9	14.0	13.5	12.4	11.3	11.0
14.....	15.0	14.8	16.1	14.9	14.7	14.5	14.7	14.0	13.3	12.5	11.0	11.0
15.....	15.0	15.0	16.6	15.0	14.8	14.5	14.5	13.8	13.3	12.6	11.0	10.9
16.....	14.8	14.8	16.6	15.2	14.8	14.3	14.5	13.8	13.3	12.6	10.9	10.9
17.....	15.3	14.8	16.3	15.0	14.8	14.2	14.4	13.8	12.8	12.5	10.9	11.1
18.....	16.0	14.8	16.0	15.9	14.8	14.1	14.3	13.5	12.8	12.8	10.9	11.1
19.....	16.3	15.0	16.0	15.7	15.8	14.1	14.1	13.5	12.7	12.9	11.0	11.0
20.....	16.0	15.0	15.7	15.5	16.7	14.1	14.1	13.5	12.7	13.0	11.0	11.0
21.....	16.2	15.0	15.7	15.3	16.9	14.1	14.1	13.5	12.7	12.9	10.9	11.0
22.....	17.3	16.3	16.6	15.0	17.1	14.3	14.1	13.8	13.3	12.9	10.8	11.0
23.....	19.7	17.1	20.5	14.8	16.6	15.1	14.0	13.8	13.7	12.9	10.8	11.0
24.....	19.4	17.9	20.5	14.8	16.0	15.5	14.0	13.8	13.9	12.9	10.8	11.0
25.....	17.1	16.8	18.2	14.8	15.6	15.0	14.0	13.9	13.9	12.8	10.5	15.5
26.....	16.1	16.4	16.9	15.0	15.3	14.7	14.0	13.9	13.8	12.8	10.6	17.8
27.....	15.8	15.8	16.5	18.2	15.1	14.5	14.0	13.9	13.7	12.8	10.6	16.8
28.....	15.4	15.8	16.3	20.2	15.1	14.6	14.0	13.9	13.7	12.7	10.7	17.0
29.....	15.0	17.0	16.0	18.6	15.0	14.7	14.0	13.8	13.8	12.6	10.8	16.1
30.....	14.8	-----	15.7	17.9	14.9	16.5	14.0	13.8	13.8	12.6	10.7	15.5
31.....	14.7	-----	15.5	-----	14.8	-----	14.0	13.8	-----	12.4	-----	15.0
Means.	15.8	15.8	17.1	15.9	15.6	14.8	14.8	13.9	13.5	12.9	11.3	12.2

a Maximum stage, 23.8.

b 20.8 at 6 p. m.

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—MONONGAHELA RIVER, GREENSBORO, PA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	7.2	7.3	11.3	10.5	7.3	7.0	8.2	9.0	6.8	5.8	6.5	9.3
2.....	7.0	7.2	16.5	10.2	7.2	7.1	8.0	8.0	6.6	5.8	6.5	9.0
3.....	7.0	7.2	13.7	9.0	7.0	7.1	8.2	7.9	6.5	5.8	6.5	8.2
4.....	7.0	7.2	12.0	9.0	7.0	7.4	8.0	7.6	6.5	5.8	6.5	8.0
5.....	7.0	8.2	10.1	9.0	7.0	7.4	7.9	7.5	6.5	5.8	6.3	14.2
6.....	7.0	10.4	10.0	9.0	7.0	7.3	7.9	7.0	6.5	5.8	6.3	14.0
7.....	7.0	10.6	11.1	9.0	6.9	7.3	7.6	7.0	6.4	5.9	6.3	12.0
8.....	7.2	11.5	11.4	9.0	6.9	7.2	7.2	7.0	6.3	5.8	6.9	10.0
9.....	7.4	15.4	10.5	8.8	6.9	7.3	7.0	7.0	6.3	5.9	7.1	9.5
10.....	8.0	14.1	9.8	8.8	7.4	7.3	7.0	6.7	6.3	5.7	7.0	9.3
11.....	8.3	12.5	9.0	8.8	7.2	7.3	7.0	6.5	6.3	5.7	7.0	9.0
12.....	9.8	9.7	8.7	8.8	7.6	7.0	7.0	6.5	6.3	5.7	7.0	8.9
13.....	11.3	10.2	8.5	8.5	7.6	7.0	7.0	6.5	6.2	5.7	7.0	8.8
14.....	10.7	15.6	8.3	8.2	7.4	7.5	6.7	6.5	6.2	5.9	7.0	8.5
15.....	9.2	13.0	8.2	8.0	7.2	7.8	6.7	6.5	6.2	6.1	7.0	8.0
16.....	9.0	12.0	8.0	7.8	7.0	7.9	6.7	6.5	6.2	7.3	7.0	Frozen.
17.....	8.5	10.7	8.0	7.6	7.0	11.3	6.7	6.5	6.2	7.0	7.0	7.5
18.....	8.3	9.8	8.0	7.5	6.9	13.0	6.5	7.0	6.0	6.9	7.0	7.2
19.....	9.5	9.0	8.5	8.3	6.9	11.2	6.5	7.5	5.8	6.7	6.9	7.0
20.....	10.5	8.5	14.0	8.2	7.0	9.5	6.8	7.0	5.8	6.5	6.8	7.0
21.....	13.3	8.2	14.7	8.0	7.9	9.2	7.0	7.0	5.8	6.5	7.8	7.0
22.....	12.7	8.5	12.2	8.0	8.0	8.5	7.0	7.0	5.8	6.3	8.6	7.0
23.....	11.8	12.5	10.2	8.4	7.9	8.0	8.2	7.3	5.8	5.8	9.3	7.0
24.....	9.7	12.0	9.8	8.3	7.8	7.9	7.5	7.3	5.8	7.0	8.9	7.0
25.....	9.0	10.0	9.0	8.3	7.6	7.7	7.4	7.0	5.8	7.0	9.4	7.0
26.....	8.5	9.4	9.0	8.0	7.3	7.4	9.3	7.0	5.8	7.0	a 18.2	7.0
27.....	8.5	9.2	9.0	7.9	7.2	7.3	10.3	7.0	5.8	7.0	22.3	7.0
28.....	8.2	8.7	8.9	7.8	7.0	7.5	10.6	7.0	5.8	7.0	14.6	7.0
29.....	8.0		8.7	7.7	7.0	8.6	9.0	7.0	5.8	6.9	11.0	7.0
30.....	7.9		9.0	7.3	7.0	8.5	10.1	7.0	5.8	6.8	9.5	7.5
31.....	Frozen.		11.0		7.0		9.5	7.0		6.5		8.3
<b>Means.</b>	<b>8.8</b>	<b>10.3</b>	<b>10.2</b>	<b>8.5</b>	<b>7.2</b>	<b>8.1</b>	<b>7.8</b>	<b>7.3</b>	<b>6.1</b>	<b>6.3</b>	<b>8.5</b>	<b>8.5</b>
<b>1901</b>												
1.....	8.3	8.2	7.5	8.8	8.8	10.1	8.7	6.3	6.8	6.4	6.0	7.3
2.....	8.2	Frozen.	7.5	8.5	8.5	9.3	8.0	6.3	7.5	6.3	6.0	7.0
3.....	8.0	7.9	8.0	10.0	8.4	8.8	7.7	6.3	7.3	6.3	6.0	7.6
4.....	8.0	8.2	9.2	15.6	8.3	8.5	7.6	6.3	7.0	6.3	6.0	11.1
5.....	8.0	11.3	11.4	15.6	8.1	8.1	7.4	6.2	6.8	6.3	6.0	10.9
6.....	7.9	10.8	13.2	15.6	8.0	8.0	7.3	6.2	6.7	6.3	6.0	9.0
7.....	7.8	10.0	12.0	17.8	7.7	7.9	7.2	6.2	6.7	6.3	6.0	8.4
8.....	7.5	8.5	9.4	15.4	7.6	9.9	7.0	6.2	6.5	6.2	6.0	8.0
9.....	7.9	8.0	9.3	12.8	8.2	10.2	7.6	6.2	6.4	6.2	6.0	7.8
10.....	8.0	8.0	14.0	11.0	9.2	8.9	7.6	6.5	6.4	6.2	6.0	8.2
11.....	8.3	8.0	13.0	10.0	10.1	8.3	7.5	6.3	6.3	6.2	6.0	10.5
12.....	10.7	8.0	13.6	9.6	9.7	8.1	7.4	6.2	6.3	6.2	6.0	9.4
13.....	12.5	8.0	11.8	9.3	9.2	8.0	7.3	6.2	6.3	6.2	6.0	8.8
14.....	11.6	Frozen.	10.4	9.1	9.4	8.0	7.2	6.2	6.7	6.2	6.0	8.2
15.....	10.5	8.0	9.8	12.1	9.2	8.1	7.0	6.1	6.6	6.2	6.3	24.0
16.....	10.0	8.0	9.2	12.5	8.7	8.7	6.9	6.1	6.7	6.2	6.3	18.0
17.....	9.0	8.0	8.9	11.7	8.3	8.8	10.1	6.1	7.3	6.2	6.3	13.0
18.....	8.7	8.0	8.6	10.8	8.1	9.1	8.9	6.1	8.6	6.2	6.3	10.2
19.....	8.3	8.0	8.3	10.5	8.1	10.0	8.3	6.1	8.2	6.1	6.3	9.0
20.....	8.0	8.0	8.3	17.3	7.9	9.4	7.9	6.1	7.9	6.1	6.3	8.5
21.....	7.8	8.0	8.9	16.8	7.9	8.5	7.6	6.1	7.5	6.1	6.2	Frozen.
22.....	7.7	8.0	9.6	15.0	8.1	8.1	7.4	6.1	7.1	6.1	6.2	7.8
23.....	8.9	8.0	9.6	13.0	9.8	8.0	7.2	6.8	7.0	6.1	6.1	7.5
24.....	9.4	8.0	9.0	12.2	10.9	7.9	7.0	6.8	6.8	6.1	6.2	7.4
25.....	9.0	7.8	8.9	12.9	9.8	8.1	6.8	6.6	6.6	6.1	8.9	7.4
26.....	8.8	7.7	8.8	12.6	9.5	8.3	6.7	7.9	6.6	6.1	9.0	10.0
27.....	8.8	7.6	11.2	11.6	15.0	8.4	6.6	7.3	6.5	6.1	8.5	13.2
28.....	8.7	7.5	11.7	10.5	15.8	8.4	6.5	7.2	6.5	6.1	8.0	14.4
29.....	8.5		10.6	9.7	14.6	9.7	6.5	7.1	6.6	6.1	7.7	13.8
30.....	8.2		9.7	9.1	13.5	8.9	6.4	7.1	6.5	6.0	7.5	20.0
31.....	8.2		9.1		11.7		6.4	6.9		6.0		15.1
<b>Means.</b>	<b>8.7</b>	<b>8.3</b>	<b>10.0</b>	<b>12.2</b>	<b>9.6</b>	<b>8.7</b>	<b>7.4</b>	<b>6.5</b>	<b>6.9</b>	<b>6.2</b>	<b>6.5</b>	<b>10.7</b>

a 27.4 at 6 p. m.

## OHIO RIVER SYSTEM—MONONGAHELA RIVER, GREENSBORO, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	11.6	12.4	22.7	10.2	7.7	7.9	11.5	9.7	6.5	7.0	6.6	8.4
2.....	10.0	12.0	15.8	10.0	7.6	7.7	11.3	8.4	6.4	8.2	6.5	9.4
3.....	9.2	13.5	14.2	9.8	7.6	7.6	9.5	8.7	6.4	7.9	6.5	10.0
4.....	8.8	11.6	12.1	10.1	7.6	7.5	9.9	8.2	6.3	7.8	6.5	11.1
5.....	8.5	11.0	10.6	11.0	7.6	7.4	8.9	7.9	6.3	7.8	6.5	10.3
6.....	7.8	9.0	9.3	10.7	7.6	7.3	8.7	7.9	6.3	7.8	6.5	9.5
7.....	7.7	8.3	9.0	11.5	7.6	7.2	8.2	7.8	6.3	7.7	6.4	8.8
8.....	7.5	Frozen.	9.0	12.7	7.6	7.2	7.9	7.8	6.3	7.5	6.4	9.5
9.....	7.5	8.0	11.8	13.4	7.6	7.1	7.8	7.5	6.5	7.4	6.4	9.8
10.....	7.5	7.7	16.3	14.6	7.5	7.0	9.4	7.3	6.3	7.3	6.4	9.1
11.....	7.5	7.5	14.0	17.5	7.5	6.9	9.1	7.4	6.2	7.0	6.4	9.5
12.....	7.5	7.5	12.9	17.7	7.5	6.8	8.7	7.3	6.2	9.8	6.4	18.1
13.....	Frozen.	7.3	12.9	16.0	7.4	6.8	8.0	7.2	6.2	9.8	6.4	19.8
14.....	7.3	7.3	15.0	13.2	7.4	6.8	7.8	7.0	6.2	9.0	6.4	17.5
15.....	7.2	7.3	12.6	11.2	7.3	6.8	7.7	6.9	6.2	8.5	6.4	13.5
16.....	7.0	7.0	10.8	10.0	7.3	6.8	7.5	6.9	6.2	8.1	6.5	16.9
17.....	7.0	7.0	11.4	9.8	7.3	7.0	7.3	6.9	6.2	7.8	6.4	18.5
18.....	7.0	7.0	12.0	9.4	7.3	7.1	7.1	6.8	6.2	7.5	6.3	14.1
19.....	7.0	6.9	10.0	9.2	7.3	7.1	7.0	6.7	6.0	7.4	6.3	10.4
20.....	7.0	6.8	9.6	8.9	7.9	7.1	8.6	6.6	6.0	7.0	6.3	9.8
21.....	7.0	6.8	9.1	8.8	7.8	7.1	8.2	6.6	6.0	6.9	6.3	9.1
22.....	7.0	6.8	8.8	8.6	7.7	7.1	8.1	6.6	6.3	6.8	6.3	10.2
23.....	7.1	6.8	8.5	8.5	7.7	7.9	7.9	6.6	6.2	6.7	6.3	10.8
24.....	7.4	8.3	8.3	8.5	7.7	7.8	7.7	6.6	6.2	6.7	6.5	10.0
25.....	7.5	10.6	8.2	8.5	7.7	7.5	7.5	6.6	6.2	6.6	7.3	9.2
26.....	7.5	16.2	8.2	8.1	8.1	7.4	7.6	7.0	6.2	6.5	13.1	8.8
27.....	13.0	15.5	8.2	8.0	10.2	7.5	7.4	6.8	6.4	6.5	13.6	8.3
28.....	19.2	15.5	8.1	7.9	10.5	8.6	7.1	6.7	6.4	6.5	11.0	7.8
29.....	14.0		8.4	7.8	9.6	8.0	6.9	6.7	6.4	6.5	9.5	7.6
30.....	11.0		11.0	7.7	8.8	7.9	8.3	6.7	6.8	6.5	8.7	10.7
31.....	13.6		10.4		8.3		7.8	6.6		6.6		12.2
<b>Means.</b>	<b>8.8</b>	<b>9.3</b>	<b>11.3</b>	<b>10.6</b>	<b>7.9</b>	<b>7.3</b>	<b>8.3</b>	<b>7.2</b>	<b>6.3</b>	<b>7.5</b>	<b>7.2</b>	<b>11.2</b>
<b>1903</b>												
1.....	10.1	11.3	24.7	8.8	8.0	8.2	10.6	6.8	6.4	6.0	6.1	6.3
2.....	9.1	11.7	15.3	8.5	7.9	7.9	9.6	6.9	6.4	6.0	6.1	6.3
3.....	12.3	13.3	11.6	8.4	7.8	7.9	8.1	7.0	6.4	6.0	6.1	6.3
4.....	16.4	13.0	10.1	8.3	7.7	7.8	8.1	7.0	6.4	6.0	6.1	Frozen.
5.....	13.5	16.1	9.0	9.2	7.6	7.7	8.4	6.8	6.4	6.0	6.1	6.3
6.....	11.3	13.0	9.0	9.2	7.5	7.6	9.8	6.8	6.4	6.0	6.1	6.3
7.....	10.0	10.7	9.0	8.9	7.5	7.5	8.8	6.8	6.3	6.3	6.1	6.3
8.....	9.3	9.5	11.1	9.7	7.5	10.4	8.1	6.8	6.3	6.3	6.1	6.3
9.....	8.8	9.2	14.9	15.2	7.4	11.1	7.8	6.7	6.2	6.4	5.8	6.3
10.....	8.3	8.8	13.8	13.4	7.4	9.4	7.6	6.6	6.3	7.0	5.5	Frozen.
11.....	Frozen.	8.5	11.5	11.0	7.3	8.6	7.7	6.6	6.3	7.1	5.7	6.2
12.....	11.2	8.8	10.5	10.4	7.3	8.7	7.9	6.6	6.3	7.0	5.6	6.2
13.....	11.6	10.1	10.0	10.6	7.2	8.9	9.1	6.6	6.2	6.8	5.6	6.1
14.....	10.0	10.0	9.3	9.6	7.1	10.9	10.2	6.5	6.2	6.7	5.5	6.1
15.....	9.6	9.4	9.0	9.4	7.0	11.5	9.1	6.5	6.2	6.6	5.5	6.2
16.....	8.8	23.4	8.8	11.7	6.9	10.5	8.3	6.5	6.2	6.6	5.6	6.2
17.....	8.7	18.3	8.5	12.9	6.9	9.5	7.9	6.3	6.1	6.5	5.4	6.2
18.....	8.7	13.4	8.3	11.5	6.8	8.8	7.8	6.2	6.2	6.5	7.8	6.2
19.....	9.2	10.5	8.1	10.5	6.8	8.5	7.9	6.2	6.1	6.4	8.0	6.2
20.....	9.0	9.5	8.0	9.6	6.8	8.0	8.8	6.2	6.1	6.5	8.4	6.2
21.....	8.0	8.7	8.2	9.0	6.7	9.5	8.5	6.2	6.4	6.4	7.7	6.5
22.....	9.1	8.5	10.5	8.7	6.7	9.1	8.1	6.2	6.3	6.4	7.2	8.6
23.....	9.5	8.3	11.8	8.4	6.7	8.8	7.8	6.4	6.3	6.4	6.8	8.4
24.....	9.3	8.3	19.4	8.2	7.2	9.1	7.7	6.3	6.3	6.4	6.6	8.1
25.....	8.7	8.3	14.4	8.1	8.7	8.8	7.5	6.3	6.2	6.4	6.5	8.1
26.....	8.5	8.4	11.1	8.1	8.8	8.2	7.4	6.3	6.2	6.3	6.4	11.0
27.....	8.3	8.6	9.7	8.4	8.9	7.9	7.2	6.3	6.1	6.3	6.3	9.5
28.....	9.1	15.5	9.3	8.4	11.7	8.8	7.1	6.2	6.1	6.3	6.3	9.3
29.....	13.2		8.6	8.3	9.6	10.8	7.0	6.2	6.1	6.3	6.3	Frozen.
30.....	13.0		8.3	8.0	8.9	12.0	6.9	6.2	6.0	6.2	6.3	8.4
31.....	13.1		8.8		8.5		6.9	6.3		6.1		8.0
<b>Means.</b>	<b>10.2</b>	<b>11.2</b>	<b>11.0</b>	<b>9.7</b>	<b>7.7</b>	<b>9.1</b>	<b>8.2</b>	<b>6.5</b>	<b>6.2</b>	<b>6.4</b>	<b>6.3</b>	<b>7.1</b>

## OHIO RIVER SYSTEM—MONONGAHELA RIVER, GREENSBORO, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	7.8	7.8	11.4	9.8	11.8	7.7	8.3	6.5	6.2	5.8	6.0	5.4
2.....	7.7	7.7	12.4	11.0	10.7	7.7	8.5	6.4	6.2	5.8	6.0	5.4
3.....	7.6	7.6	11.0	10.7	9.7	7.9	8.5	6.4	6.0	5.8	6.2	5.4
4.....	9.8	7.5	15.2	9.7	9.1	7.8	8.2	6.3	6.0	5.8	6.0	5.4
5.....	9.9	7.4	12.5	8.9	8.8	7.7	7.9	6.3	6.2	5.8	5.8	5.4
6.....	9.0	7.4	10.5	8.6	8.5	8.2	7.6	6.3	6.2	5.8	6.0	5.4
7.....	8.0	7.9	10.5	8.3	8.1	8.7	7.9	6.3	6.2	5.8	6.0	5.4
8.....	8.0	14.4	13.9	8.2	8.0	8.5	7.9	6.3	6.2	5.8	5.8	5.4
9.....	7.8	13.0	12.5	8.3	7.8	8.2	7.7	6.3	6.2	5.8	5.8	5.6
10.....	7.6	11.0	10.6	8.2	7.7	8.1	8.0	6.3	6.2	5.8	5.7	5.8
11.....	7.5	8.7	9.6	8.0	7.6	7.9	7.8	6.3	6.2	5.8	5.8	Frozen.
12.....	7.4	8.5	9.2	7.9	7.5	7.7	7.7	6.3	6.2	6.0	5.5	5.4
13.....	7.4	Frozen.	9.1	7.8	7.4	7.5	7.6	6.3	6.0	6.0	5.5	5.4
14.....	7.4	8.1	9.0	7.7	7.3	7.4	7.4	6.2	6.0	6.0	5.7	5.4
15.....	7.4	7.7	9.2	7.7	7.3	7.3	7.3	6.2	6.0	6.3	5.7	5.4
16.....	7.5	7.7	9.7	7.7	7.6	7.2	7.2	6.2	6.0	6.2	5.7	5.4
17.....	7.4	7.5	9.1	8.3	7.5	7.0	7.0	6.2	6.0	6.2	5.7	5.4
18.....	8.1	7.4	8.8	8.8	7.6	6.6	7.0	6.2	6.0	6.0	5.7	5.4
19.....	8.1	7.4	8.7	8.8	8.8	6.5	6.8	6.2	6.0	6.0	5.6	5.4
20.....	8.0	7.4	8.7	8.3	10.7	6.5	6.7	6.2	6.0	5.4	5.7	5.4
21.....	8.3	7.4	8.7	8.2	10.7	6.5	6.4	6.2	6.0	5.4	5.7	5.4
22.....	12.5	8.6	9.8	7.9	11.0	6.9	7.0	6.6	5.9	5.5	5.7	5.4
23.....	15.8	10.4	13.5	7.8	10.1	7.5	7.0	6.4	6.0	5.5	5.5	5.6
24.....	14.4	11.1	15.1	7.5	9.2	8.4	7.0	6.3	6.0	5.5	5.5	5.6
25.....	11.2	11.2	12.5	7.4	8.8	7.9	6.8	6.5	6.0	5.5	5.5	9.5
26.....	9.7	9.8	10.7	7.8	8.3	7.3	6.7	6.5	6.0	5.5	5.4	12.8
27.....	Frozen.	8.7	10.1	12.0	8.1	7.3	6.6	6.4	6.0	5.5	5.5	10.5
28.....	8.7	8.5	9.6	14.4	8.1	7.0	6.5	6.4	5.8	5.5	5.4	11.3
29.....	8.2	8.8	8.5	12.7	8.0	7.1	6.7	6.2	5.8	6.0	5.4	9.8
30.....	8.0		8.5	11.6	7.8	8.8	6.6	6.2	5.8	6.0	5.4	8.7
31.....	7.8		8.4		7.7		6.5	6.2		6.0		8.0
Means.	8.8	8.8	10.5	9.0	8.6	7.6	7.3	6.3	6.0	5.8	5.7	6.5

## OHIO RIVER SYSTEM—MONONGAHELA RIVER, LOCK NO. 4, PA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	8.0	7.4	10.2	12.3	6.9	7.1	7.6	9.2	7.9	3.8	8.0	10.1
2.....	7.8	7.0	21.0	11.0	6.7	6.7	8.0	7.7	7.8	3.7	7.8	9.3
3.....	7.7	7.0	19.0	10.2	6.6	7.1	8.7	7.0	7.7	3.6	7.6	8.6
4.....	7.6	7.0	14.3	10.0	6.5	7.5	7.6	6.7	7.6	3.6	7.5	8.1
5.....	7.6	7.4	11.9	9.9	6.5	8.5	7.0	6.5	7.5	3.5	7.4	12.8
6.....	7.5	11.5	11.6	9.5	6.4	9.0	6.7	6.2	7.4	3.9	7.4	18.7
7.....	7.4	11.6	12.6	9.0	6.3	8.7	6.5	6.0	7.1	4.0	7.6	14.6
8.....	7.4	12.0	13.7	8.8	6.2	8.6	6.5	5.8	6.9	4.0	8.0	12.0
9.....	7.8	19.2	12.5	9.2	7.1	8.6	6.6	5.6	6.9	4.0	8.2	10.5
10.....	8.4	17.9	10.9	9.2	8.2	8.7	6.9	5.7	6.5	4.0	8.2	10.9
11.....	9.4	13.6	10.0	8.7	8.9	8.6	6.7	5.8	6.4	4.0	8.1	10.2
12.....	9.2	11.6	9.4	8.2	9.2	8.7	6.4	5.9	6.2	3.9	8.3	9.2
13.....	11.6	10.8	9.1	7.7	9.0	8.5	6.2	5.9	6.0	3.9	8.1	8.6
14.....	11.5	18.0	8.5	7.6	9.0	8.2	6.0	5.9	5.9	4.0	8.4	8.0
15.....	10.4	17.5	8.1	7.4	8.8	9.0	6.0	5.8	5.6	3.9	8.5	7.6
16.....	9.2	13.5	8.0	7.2	8.6	9.2	6.0	5.8	5.5	3.9	8.5	7.5
17.....	8.6	11.2	7.8	7.0	8.0	9.6	5.8	5.9	5.3	4.0	8.5	7.3
18.....	8.5	9.8	7.4	7.0	7.9	16.0	5.7	5.9	5.1	5.6	8.4	6.9
19.....	9.3	8.8	7.6	7.6	8.4	13.5	5.7	7.8	5.0	5.8	8.2	6.9
20.....	11.9	7.9	13.8	8.2	8.5	11.2	6.3	8.5	5.0	5.9	8.1	7.1
21.....	14.0	7.7	19.0	8.1	8.7	9.2	6.5	8.5	4.9	6.0	8.5	7.0
22.....	15.5	8.0	15.7	8.0	9.2	8.2	7.5	8.4	4.9	6.1	9.8	7.0
23.....	13.0	11.7	12.2	8.0	9.4	7.5	9.0	8.1	4.8	6.1	10.3	7.0
24.....	11.0	14.7	10.5	8.3	9.2	7.0	9.0	8.4	4.6	6.5	10.9	7.0
25.....	9.8	13.0	9.6	8.4	8.9	6.8	8.4	8.5	4.6	7.6	11.2	7.0
26.....	9.2	11.9	9.5	8.0	8.6	6.7	9.7	8.3	4.5	8.6	17.6	7.0
27.....	8.6	10.0	9.4	7.6	8.5	6.6	10.8	8.5	4.4	8.6	33.8	7.0
28.....	8.1	9.2	9.2	7.4	8.5	6.6	12.0	8.3	4.2	8.5	22.6	6.9
29.....	7.9		9.1	7.1	8.4	7.6	10.0	8.1	4.0	8.3	14.8	6.9
30.....	7.4		8.9	7.0	7.9	8.6	8.8	8.0	4.0	8.1	11.5	7.4
31.....	7.1		12.0		7.9		10.2	8.0		8.1		7.9
Means.	9.3	11.3	11.4	8.5	8.0	8.6	7.6	7.4	5.8	5.3	10.4	8.8

a 16.4 at 6 p. m.

## OHIO RIVER SYSTEM—MONONGAHELA RIVER, LOCK NO. 4, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	8.2	8.0	7.0	9.2	9.7	12.0	8.9	5.9	8.6	7.0	4.6	7.5
2.....	8.7	8.0	6.8	8.7	8.8	10.5	7.8	5.9	8.8	7.0	4.6	7.1
3.....	9.6	7.8	7.0	9.3	8.5	9.5	7.2	5.7	8.9	7.0	4.5	7.2
4.....	8.6	8.0	8.0	18.8	8.1	8.8	7.0	5.5	8.8	7.0	4.5	9.9
5.....	8.0	10.2	11.6	21.6	7.8	8.2	7.1	5.4	8.5	7.0	4.6	12.5
6.....	7.8	13.2	15.5	20.6	7.5	7.8	6.8	5.2	8.4	7.0	4.6	10.5
7.....	7.5	10.5	13.9	23.1	7.3	8.4	6.6	5.1	8.3	6.9	4.7	8.9
8.....	7.5	9.2	10.8	21.6	7.1	9.3	6.5	5.0	8.3	7.0	4.7	7.8
9.....	7.3	8.6	9.6	17.0	7.2	11.1	6.8	5.8	8.2	7.0	4.7	7.3
10.....	7.2	8.5	13.5	13.6	8.3	10.0	7.0	4.7	8.2	7.0	4.7	7.3
11.....	7.5	8.5	18.0	11.5	10.7	8.6	7.0	4.1	8.0	7.0	4.7	10.0
12.....	9.3	8.9	18.5	10.5	10.9	7.9	6.8	5.5	7.9	7.0	4.7	10.5
13.....	15.5	8.7	14.5	10.1	10.0	7.6	6.5	5.6	7.7	7.0	4.8	9.2
14.....	14.5	8.5	12.2	9.7	9.7	8.0	6.3	5.9	8.0	7.0	4.8	8.2
15.....	11.9	8.1	11.0	10.9	10.0	7.8	6.1	6.0	8.3	6.9	4.8	18.5
16.....	10.4	7.5	10.2	17.0	9.2	8.2	6.1	6.0	8.4	6.7	4.8	28.5
17.....	9.5	7.5	9.5	15.6	8.4	8.7	6.4	6.1	8.6	6.5	4.9	18.5
18.....	9.0	7.6	8.9	12.6	7.8	8.5	10.1	6.3	9.2	6.5	4.9	12.5
19.....	8.4	7.7	8.3	12.0	7.7	10.6	8.4	6.7	9.9	6.5	5.0	10.0
20.....	7.8	7.9	8.3	23.3	7.5	10.4	7.5	7.0	8.5	6.3	5.0	8.4
21.....	7.2	8.3	8.7	25.5	7.5	8.9	7.2	7.3	7.5	6.1	5.0	8.0
22.....	7.5	8.2	9.7	21.5	7.6	8.2	6.8	7.6	7.0	6.0	5.1	7.8
23.....	8.0	7.6	10.5	17.2	9.5	7.6	6.7	7.8	6.9	5.8	5.2	7.5
24.....	9.8	7.5	9.7	15.0	12.5	7.5	6.4	8.5	6.7	5.5	5.7	7.6
25.....	10.0	7.5	9.2	15.5	11.2	7.1	6.1	8.6	5.9	5.3	7.5	7.8
26.....	9.9	7.1	8.9	15.6	11.0	8.0	5.7	9.5	5.8	5.2	10.5	8.8
27.....	9.4	7.1	12.0	14.1	19.4	8.0	5.9	9.2	6.1	5.0	10.0	14.5
28.....	9.2	7.0	14.0	12.5	21.3	8.1	6.0	9.0	6.1	5.0	9.3	18.5
29.....	9.0		12.6	11.0	20.0	10.0	6.0	8.9	6.5	5.0	8.5	16.5
30.....	8.2		11.0	10.0	17.1	9.2	6.1	8.8	6.7	4.9	7.9	25.0
31.....	8.1		9.8		14.8		6.0	8.7		4.7		22.0
<b>Means.</b>	<b>9.0</b>	<b>8.3</b>	<b>10.9</b>	<b>15.2</b>	<b>10.5</b>	<b>8.8</b>	<b>6.8</b>	<b>6.7</b>	<b>7.8</b>	<b>6.3</b>	<b>5.6</b>	<b>11.8</b>
<b>1902</b>												
1.....	15.5	15.5	29.5	11.4	7.9	9.2	11.0	9.9	7.5	6.0	8.0	9.0
2.....	12.2	13.5	25.1	11.3	7.7	8.5	14.5	10.0	7.5	6.0	8.2	9.1
3.....	10.4	15.5	20.0	10.7	7.5	8.3	11.7	9.0	7.3	9.1	8.2	11.1
4.....	9.5	14.5	15.6	10.6	7.5	8.0	11.5	9.6	7.3	9.5	8.3	13.0
5.....	8.9	11.6	12.7	11.7	7.3	7.6	10.5	8.5	7.0	9.5	8.3	12.3
6.....	7.8	10.0	11.1	12.2	7.4	7.5	9.5	7.9	7.0	9.4	8.1	11.0
7.....	7.6	8.9	10.2	12.4	7.2	7.3	9.2	8.1	6.9	9.1	8.1	10.5
8.....	7.6	8.9	9.7	14.7	7.1	7.5	8.7	7.5	6.9	9.0	8.0	10.4
9.....	7.7	8.7	11.3	17.2	7.0	7.4	8.3	7.1	6.9	8.9	8.0	10.8
10.....	7.5	8.1	21.6	20.1	6.9	6.9	11.5	7.0	6.9	8.6	8.0	10.4
11.....	7.3	7.9	19.6	22.0	6.7	7.2	12.2	6.9	6.8	8.4	8.1	9.9
12.....	7.2	7.7	16.7	22.7	6.7	7.5	10.3	7.0	6.8	11.3	8.1	20.0
13.....	7.0	7.6	15.9	21.5	6.5	7.8	9.1	6.9	6.8	13.0	8.1	25.0
14.....	6.9	7.6	18.8	17.7	6.4	7.9	8.4	6.7	6.7	11.5	8.0	26.2
15.....	6.6	7.5	16.7	14.0	6.4	7.5	7.6	6.2	6.7	10.2	8.1	19.0
16.....	6.5	7.2	13.6	12.0	6.6	7.1	7.2	6.2	6.6	9.4	8.1	17.0
17.....	6.5	7.1	13.3	11.0	6.7	7.2	6.9	6.5	6.6	8.9	8.1	26.0
18.....	6.2	7.0	14.4	10.3	6.5	7.5	6.6	6.5	6.5	8.5	8.0	20.5
19.....	6.2	7.0	13.1	9.9	6.5	7.7	7.0	6.4	6.5	8.0	7.7	14.5
20.....	6.2	6.9	11.2	9.4	7.4	8.1	9.2	6.4	6.4	7.7	7.5	12.0
21.....	6.2	6.8	10.0	9.0	9.2	8.5	9.2	6.4	6.4	7.4	7.4	10.5
22.....	6.2	6.9	9.3	8.5	9.0	8.6	9.2	6.4	6.3	7.2	7.4	11.5
23.....	6.5	7.3	8.8	8.5	9.0	9.3	8.4	6.3	6.3	7.1	7.4	12.5
24.....	6.8	9.5	8.3	8.8	8.9	9.5	7.7	6.3	6.2	6.9	7.5	11.8
25.....	6.8	11.6	8.1	8.5	8.7	9.1	8.1	7.4	6.1	6.8	8.3	10.5
26.....	7.6	16.4	8.0	7.7	8.8	9.0	8.0	8.0	6.1	6.7	11.5	9.7
27.....	9.5	21.5	7.8	7.5	11.5	9.1	7.4	8.2	6.0	6.5	18.0	9.0
28.....	25.9	18.8	7.6	7.3	12.5	9.7	6.9	7.9	6.0	6.0	14.0	8.3
29.....	19.5		7.8	7.3	11.5	10.0	6.6	7.8	6.0	5.9	11.3	7.9
30.....	13.8		10.6	7.5	10.7	9.5	12.0	7.6	5.9	6.3	9.9	9.4
31.....	14.5		11.6		9.7		9.0	7.6		7.1		15.0
<b>Means.</b>	<b>9.2</b>	<b>10.3</b>	<b>13.5</b>	<b>12.1</b>	<b>8.0</b>	<b>8.2</b>	<b>9.1</b>	<b>7.4</b>	<b>6.6</b>	<b>8.3</b>	<b>8.8</b>	<b>13.3</b>

## DESCRIPTION OF RIVER GAGES, ETC.

*Ohio River Survey - Mississippi River, Leg. No. 1, PA - Continued.*

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	11.6	11.4	12.5	9.8	7.9	8.1	12.8	6.8	7.7	6.8	6.1	8.0
2	10.6	11.4	11.6	9.9	7.6	7.8	11.2	6.9	7.7	6.8	6.1	8.0
3	10.0	11.7	15.7	8.7	7.2	7.2	9.0	7.0	7.9	6.7	6.1	7.8
4	11.1	10.0	12.1	8.6	7.1	7.3	8.5	7.4	8.0	6.5	6.1	7.7
5	10.0	9.7	10.7	8.9	7.0	7.1	7.9	7.9	8.1	6.5	6.2	7.6
6	11.3	17.8	10.0	9.0	7.1	6.8	9.3	8.1	8.1	6.5	6.4	7.0
7	11.0	13.5	9.0	9.1	7.1	6.7	9.5	8.4	8.0	6.4	6.7	7.1
8	10.0	11.0	11.0	9.1	7.0	7.8	8.1	8.3	8.0	6.4	6.7	7.2
9	10.0	10.3	10.0	10.7	6.9	13.1	7.5	8.2	8.0	6.5	6.8	7.1
10	9.0	9.0	14.0	17.7	6.9	11.2	7.0	8.2	8.1	6.5	6.7	6.9
11	9.0	9.0	14.3	11.0	6.5	9.2	7.0	8.1	8.2	7.3	6.7	6.5
12	10.0	9.0	13.0	13.0	6.5	8.2	7.1	8.0	8.2	8.4	6.6	6.5
13	11.4	10.0	11.3	11.0	6.1	8.5	8.7	7.9	8.1	8.4	6.5	6.1
14	11.3	11.1	10.0	12.0	6.1	12.0	11.5	7.7	8.0	8.2	6.5	6.2
15	10.0	10.0	10.0	10.0	6.3	12.0	10.5	7.5	8.0	8.0	6.4	6.2
16	10.0	10.0	9.1	11.0	6.8	12.2	9.1	7.6	7.9	7.5	6.2	6.1
17	10.3	10.3	9.7	13.7	7.1	11.0	7.9	7.7	7.9	7.1	6.3	6.0
18	10.3	11.0	9.3	11.1	7.1	9.5	7.3	7.9	7.9	6.9	6.6	6.1
19	9.3	11.0	9.1	13.1	7.2	8.5	7.3	8.0	7.7	6.7	9.3	6.2
20	9.3	10.0	9.0	11.0	8.0	7.0	7.5	7.9	7.6	6.6	9.5	7.2
21	10.3	10.3	10.0	10.0	8.1	7.0	8.2	7.9	7.5	6.5	9.5	8.0
22	10.3	10.0	10.0	10.0	8.3	8.8	8.2	8.2	7.4	6.6	9.0	8.5
23	10.1	10.0	11.0	8.3	8.3	10.0	7.5	7.5	7.2	6.6	8.7	8.8
24	10.0	10.0	12.3	10.0	8.3	10.3	7.0	7.5	7.1	6.6	8.6	8.0
25	10.0	10.0	12.0	10.0	8.3	10.8	6.7	7.3	7.1	6.9	8.4	7.6
26	10.0	10.0	11.0	10.0	11.0	8.7	6.1	7.3	7.1	6.6	8.3	9.9
27	10.0	10.0	12.3	10.0	10.1	7.9	6.1	7.3	7.0	6.5	8.2	10.6
28	10.0	10.0	12.3	10.0	10.3	7.9	6.9	7.3	7.0	6.4	8.4	9.5
29	10.0	10.0	12.3	10.0	10.9	8.9	6.5	7.6	7.2	6.2	8.3	9.5
30	10.0	10.0	12.3	10.0	10.9	8.3	8.5	7.6	7.2	6.2	8.3	9.3
31	10.0	10.0	12.3	10.0	10.9	8.5	8.6	7.6	7.2	6.2	8.3	9.1



## DESCRIPTION OF RIVER GAGES, ETC.

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## OHIO RIVER SYSTEM--BEAVER RIVER, ELLWOOD JUNCTION, PA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	2.5	Frozen.	Frozen.	4.2	3.1	3.0	2.0	2.8	2.3	0.5	0.3	3.4
2.....	2.5	Frozen.	Frozen.	4.0	3.0	3.5	2.0	2.8	2.2	0.4	0.3	3.3
3.....	2.5			4.0	3.0	3.7	2.0	2.8	2.2	0.4	0.3	3.1
4.....	2.5			4.0	2.9	3.0	2.0	2.8	2.3	0.3	0.3	3.1
5.....	2.5		6.0	4.0	2.9	2.8	2.1	2.8	2.3	0.2	0.3	3.1
6.....	2.5		5.9	4.0	2.8	2.4	2.4	2.8	2.3	0.1	0.3	3.3
7.....	2.5		9.6	4.0	2.8	2.2	3.0	2.7	2.3	0.1	0.3	3.4
8.....	2.5		8.8	4.0	2.7	2.2	3.1	2.7	2.2	0.1	0.3	3.4
9.....	2.5	7.0	6.5	4.0	2.7	2.2	2.9	2.7	2.2	0.1	0.3	3.4
10.....	2.5	6.2	5.5	4.0	2.7	2.0	2.6	2.6	2.2	0.1	0.3	3.3
11.....	2.5	5.8	5.5	3.8	2.6	2.0	2.4	2.6	2.2	0.1	0.3	3.3
12.....	4.6	4.8	5.5	3.8	2.6	2.0	5.2	2.5	2.2	0.1	0.3	3.2
13.....	5.0	4.5	5.0	3.8	2.6	2.0	4.8	2.5	2.2	0.1	0.3	Frozen.
14.....	4.6	5.8	4.5	3.8	2.6	2.2	3.8	2.5	2.1	0.1	0.3	.....
15.....	4.0	5.8	4.5	3.8	2.6	2.3	3.0	2.3	2.1	0.1	0.3	.....
16.....	3.6	5.4	4.4	3.8	2.5	2.3	2.8	2.3	2.1	0.1	0.3	.....
17.....	3.0	4.8	Frozen.	3.8	2.5	2.2	2.8	2.3	2.1	0.1	0.3	.....
18.....	2.5	Frozen.		3.8	2.4	2.2	2.8	2.3	2.1	0.2	0.3	.....
19.....	2.5		4.4	3.5	2.4	2.2	2.6	2.2	2.0	0.2	0.4	.....
20.....	2.5		4.6	3.4	2.4	2.2	2.8	2.4	2.0	0.2	0.4	.....
21.....	2.6		4.5	3.4	2.4	2.2	2.8	2.4	1.9	0.2	0.4	.....
22.....	2.6		4.4	3.4	2.3	2.2	2.7	2.4	1.7	0.2	0.5	.....
23.....	2.5		4.4	3.4	2.2	2.1	2.7	2.4	1.4	0.2	2.0	.....
24.....	2.5		4.2	3.4	2.2	2.1	2.6	2.4	1.2	0.3	2.0	.....
25.....	2.5		4.2	3.4	2.2	2.1	2.6	2.3	1.0	0.3	2.0	.....
26.....	2.9		4.2	3.4	2.1	2.0	3.0	2.3	0.9	0.3	3.9	.....
27.....	2.9		4.2	3.3	2.1	2.0	3.0	2.3	0.7	0.3	4.3	3.1
28.....	2.9		4.2	3.3	2.0	2.0	3.1	2.3	0.6	0.3	4.0	3.1
29.....	Frozen.		4.2	3.2	2.0	2.0	3.0	2.3	0.5	0.3	4.0	3.1
30.....			4.2	3.2	2.0	2.0	3.0	2.3	0.5	0.3	3.5	Frozen.
31.....			4.2	.....	2.0	.....	2.8	2.3	.....	0.3	.....	.....
<b>Means.</b>	2.9	.....	5.1	3.7	2.5	2.3	2.9	2.5	1.8	0.2	1.1	.....
<b>1901</b>												
1.....	Frozen.	Frozen.	Frozen.	4.2	3.5	4.5	3.9	1.9	3.4	3.0	2.0	3.8
2.....				4.2	3.5	4.4	3.7	1.9	3.4	3.0	2.0	3.7
3.....				4.2	3.4	4.4	3.6	1.9	3.5	3.2	1.9	3.7
4.....				4.6	3.4	4.4	4.0	1.7	3.4	3.2	1.9	3.5
5.....				5.4	3.2	4.2	4.0	1.7	3.4	3.1	1.9	3.4
6.....			8.0	5.0	3.1	4.2	3.8	1.7	3.3	3.0	1.9	3.1
7.....			Frozen.	5.2	3.1	4.0	3.7	1.7	3.2	3.0	1.8	3.0
8.....				5.0	3.5	4.0	3.6	1.7	3.2	2.9	1.9	3.0
9.....				4.5	3.5	4.1	3.5	1.7	3.1	2.9	1.8	3.0
10.....			13.0	4.0	3.3	3.8	3.5	1.7	3.1	2.9	1.8	3.0
11.....	3.9		10.0	3.9	3.3	3.5	3.0	1.7	3.1	2.9	1.8	3.6
12.....	4.6		9.0	3.5	4.5	3.4	2.8	1.7	3.1	2.9	1.8	3.5
13.....	4.6		8.1	3.5	4.8	3.0	2.8	1.5	3.1	2.9	1.8	3.4
14.....	4.0		6.5	3.4	4.2	3.0	2.7	1.3	3.3	2.8	1.8	3.8
15.....	3.5		5.5	3.5	3.8	3.3	2.5	1.3	3.1	2.8	1.9	4.5
16.....	3.2		5.0	3.5	3.5	3.2	2.5	1.9	4.1	2.7	1.9	4.9
17.....	3.2		4.8	3.5	3.5	3.0	2.5	1.9	4.5	2.7	1.9	4.6
18.....	3.1		4.7	3.5	3.5	3.0	2.5	2.2	4.5	2.8	1.9	4.2
19.....	Frozen.		4.7	3.5	3.5	3.0	2.5	4.2	4.5	2.8	2.0	4.0
20.....			4.7	9.3	3.5	3.0	2.3	4.5	3.5	2.7	2.0	Frozen.
21.....			4.7	11.0	3.5	3.2	2.3	4.3	4.0	2.6	2.0	.....
22.....			4.7	7.0	3.7	4.0	2.3	4.1	3.5	2.5	2.0	.....
23.....			4.7	7.0	3.6	4.5	2.3	4.0	3.0	2.5	2.0	.....
24.....			4.6	9.0	3.6	4.2	2.1	4.0	3.0	2.5	2.1	.....
25.....	3.5		4.6	10.5	3.6	4.0	2.1	4.5	3.0	2.3	2.1	.....
26.....	3.4		4.9	10.7	3.8	3.9	1.9	4.5	2.8	2.3	4.0	.....
27.....	3.3		5.3	8.0	3.8	4.0	1.9	4.0	2.8	2.3	4.2	.....
28.....	Frozen.		5.0	6.0	4.2	4.0	1.9	3.8	2.8	2.1	4.3	.....
29.....			4.5	3.9	4.5	4.0	1.9	3.5	3.0	2.1	4.3	.....
30.....			4.3	3.5	4.6	4.0	1.9	3.4	3.0	2.0	4.2	.....
31.....			4.3	.....	4.5	.....	1.9	3.4	.....	2.0	.....	.....
<b>Means.</b>	.....	.....	5.9	5.4	3.7	3.8	2.8	2.7	3.4	2.7	2.3	3.7

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—BEAVER RIVER, ELLWOOD JUNCTION, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	6.5	Frozen.	10.0	5.0	3.7	3.4	5.0	3.4	2.4	2.5	3.2	3.5
2.....	6.2		9.0	5.0	3.7	3.4	4.5	3.1	2.2	2.5	3.2	3.5
3.....	5.5		7.6	4.7	3.7	3.4	4.5	3.0	2.2	2.5	3.4	3.5
4.....	5.0		6.0	4.7	3.6	3.4	5.5	2.9	2.2	2.5	3.2	3.0
5.....	Frozen.		5.0	4.5	3.6	3.3	5.4	2.8	2.2	2.5	3.2	3.0
6.....			4.6	4.5	3.6	3.3	5.0	2.6	2.2	2.8	3.2	2.9
7.....			4.6	4.5	4.0	3.3	4.5	2.5	2.1	2.8	3.2	2.9
8.....			4.6	4.5	4.0	3.3	4.5	2.4	2.1	3.0	3.0	2.8
9.....			4.9	5.0	3.7	3.4	4.4	2.4	2.1	3.0	3.0	2.6
10.....			4.7	9.5	3.7	3.5	6.6	2.6	2.1	3.0	3.0	2.5
11.....			4.7	8.0	3.7	3.4	7.8	2.6	2.1	3.0	2.8	2.5
12.....	4.6		4.5	7.0	3.5	3.5	6.0	2.6	2.1	3.5	2.6	2.5
13.....	4.6		4.7	5.6	3.5	3.2	5.0	2.6	2.1	3.5	2.5	4.5
14.....	4.4		4.5	5.0	3.5	3.2	4.6	2.6	2.1	3.5	2.5	4.8
15.....	Frozen.		4.5	4.6	3.5	3.2	4.0	2.5	2.1	3.4	2.5	4.0
16.....			4.5	4.6	3.3	3.1	3.8	2.5	2.1	3.4	2.4	3.5
17.....			4.5	4.5	3.3	3.1	3.5	2.5	2.1	3.5	2.4	7.4
18.....			4.5	4.5	3.3	3.0	3.4	2.4	2.1	3.5	2.4	5.5
19.....			4.5	4.5	3.3	3.5	3.5	2.4	2.1	3.4	2.5	3.8
20.....			4.5	4.5	3.3	3.5	3.7	2.4	2.1	3.4	2.5	4.0
21.....			4.5	4.5	3.1	3.5	4.0	2.4	2.1	3.4	2.6	4.1
22.....			4.3	4.5	3.1	3.3	4.2	2.4	2.1	3.4	2.8	4.0
23.....			4.3	4.3	3.6	3.1	3.8	2.4	2.1	3.4	3.0	3.8
24.....			4.3	4.0	3.6	3.1	3.7	2.4	2.1	3.4	3.0	3.5
25.....			4.3	4.0	3.3	3.1	3.5	2.4	2.1	3.4	3.2	3.4
26.....			4.3	4.0	3.3	4.0	3.4	2.4	2.1	3.4	3.2	3.5
27.....	5.0		4.2	4.0	4.0	4.5	3.4	2.4	2.1	3.4	3.2	Frozen.
28.....	4.5	5.6	4.3	4.0	3.9	3.5	3.2	2.4	2.1	3.4	3.2	
29.....	Frozen.		4.3	3.9	3.6	3.5	3.0	2.4	2.1	3.4	3.0	
30.....			4.3	3.9	3.4	4.5	2.8	2.4	2.2	3.4	3.5	
31.....			4.6		3.4		2.8	2.4		3.4		
<b>Means.</b>			5.0	4.9	3.5	3.4	4.3	2.6	2.1	3.2	2.9	3.7
<b>1903</b>												
1.....	Frozen.	6.5	11.0	3.4	3.0	2.6	5.0	3.0	4.5	2.0	1.3	Frozen.
2.....		6.0	9.9	3.4	2.9	2.6	4.5	2.9	4.5	1.8	1.2	
3.....		5.0	8.2	3.4	2.9	2.5	4.8	2.8	4.5	1.8	1.2	
4.....	8.0	8.2	4.0	3.8	2.9	2.5	4.6	2.8	4.5	1.8	1.0	
5.....	7.5	8.0	4.0	3.8	2.9	2.5	4.6	2.7	4.0	1.8	1.0	
6.....	6.0	7.5	3.8	3.8	2.8	2.4	4.5	2.6	4.0	1.8	1.0	
7.....	5.5	4.5	3.7	3.7	2.8	2.4	4.5	2.5	4.0	1.8	0.9	
8.....	5.5	3.5	3.7	3.7	2.8	2.4	4.0	2.4	3.8	2.0	0.9	
9.....	4.5	3.0	9.0	3.5	2.8	2.4	3.8	2.4	3.5	2.4	0.8	
10.....	Frozen.	3.0	7.0	3.4	2.8	2.6	3.5	2.2	3.0	2.5	0.8	
11.....		3.0	10.2	3.3	2.7	2.5	2.9	2.2	3.0	2.5	0.8	
12.....		3.0	8.0	3.3	2.6	2.5	2.6	2.2	3.0	2.5	0.7	
13.....		3.0	6.0	3.8	2.6	2.5	2.5	2.2	3.0	2.4	0.7	
14.....		3.0	4.0	5.5	2.6	3.0	2.5	2.0	3.0	2.2	0.7	
15.....		3.0	3.9	6.0	2.5	3.0	2.5	2.0	3.0	2.1	0.7	
16.....		3.5	3.8	4.8	2.5	3.0	2.5	2.5	2.8	2.0	0.7	
17.....		3.0	3.5	4.0	2.5	3.0	2.5	2.0	2.6	2.0	3.1	
18.....		Frozen.	3.5	3.5	2.5	2.8	2.8	2.0	2.5	2.0	3.8	
19.....			3.5	3.4	2.4	2.8	4.8	2.0	2.5	1.8	3.5	
20.....			3.5	3.3	2.4	2.8	4.8	2.0	2.5	1.8	3.3	
21.....			3.5	3.0	2.4	2.8	4.6	2.0	2.4	1.7	3.0	
22.....			4.0	3.0	2.4	2.8	4.6	2.0	2.2	1.6	3.0	
23.....			3.8	3.0	2.8	3.2	4.5	2.0	2.0	1.6	3.0	
24.....			3.8	3.0	3.5	4.0	4.0	2.0	2.0	1.6	2.8	
25.....			3.5	3.0	3.5	4.0	3.8	1.9	2.0	1.6	2.8	
26.....			3.5	3.0	3.5	4.0	3.5	1.9	2.0	1.5	2.6	
27.....			3.5	3.0	3.0	3.8	3.0	1.8	2.0	1.4	2.6	
28.....		8.7	3.5	3.0	2.9	3.7	2.9	7.2	2.0	1.4	Frozen.	
29.....	6.1		3.5	3.0	2.8	3.8	2.8	6.0	2.0	1.4		
30.....	7.5		3.5	3.0	2.8	4.5	2.7	4.5	2.0	1.3		
31.....	7.5		3.4		2.8		2.8	4.5		1.3		
<b>Means.</b>		4.7	5.0	3.6	2.8	3.0	3.7	2.7	3.0	1.9	1.8	

## OHIO RIVER SYSTEM—BEAVER RIVER, ELLWOOD JUNCTION, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	Frozen.	Frozen.	22.8	9.0	4.8	5.1	3.1	2.6	2.2	0.9	1.1	1.1
2.....			9.8	13.9	4.6	9.1	3.2	2.6	2.3	0.9	1.1	1.1
3.....			13.8	9.6	4.4	7.8	3.0	2.5	2.2	1.3	1.1	1.1
4.....			11.2	6.9	4.0	6.7	2.9	2.5	2.2	1.1	1.1	1.1
5.....			6.8	5.6	3.8	4.7	2.9	2.5	2.2	1.0	1.1	1.1
6.....			5.8	5.0	3.6	4.3	2.8	2.5	2.2	1.1	1.1	1.1
7.....			5.8	4.8	3.5	4.1	4.6	2.5	2.2	1.0	1.1	1.1
8.....		8.0	6.2	4.5	3.4	4.0	4.8	2.4	2.1	1.0	1.1	1.1
9.....		8.5	6.1	4.3	3.4	3.8	4.5	2.4	2.1	1.3	1.1	1.1
10.....		6.3	5.0	4.1	3.1	3.8	4.0	2.3	2.1	1.2	1.1	1.1
11.....		4.8	4.5	3.9	3.0	3.7	4.0	2.3	2.0	1.3	1.1	Frozen.
12.....		Frozen.	4.0	3.8	2.8	3.7	3.8	2.3	2.0	1.2	1.2	
13.....			4.0	3.7	2.8	3.7	3.6	2.2	2.0	1.1	1.2	
14.....			3.8	3.7	2.8	3.6	3.5	2.1	1.9	1.0	1.2	
15.....			3.7	3.6	2.8	3.5	3.4	2.0	1.9	1.0	1.2	
16.....			3.4	3.7	2.6	3.4	3.4	2.0	1.9	1.0	1.2	
17.....			3.4	3.5	2.6	3.4	3.3	2.0	1.9	1.0	1.2	
18.....			3.3	3.4	2.5	3.3	3.2	1.9	1.8	1.0	1.1	
19.....			3.2	3.4	2.5	3.3	3.1	1.9	1.8	1.0	1.1	
20.....			4.6	3.4	2.5	3.4	3.0	1.9	1.8	1.0	1.1	
21.....			4.5	3.4	2.4	3.7	3.0	1.9	1.8	1.0	1.1	
22.....	11.0		4.3	3.3	2.4	3.9	2.9	2.2	1.7	1.1	1.1	
23.....	16.4		4.2	3.2	2.3	3.7	2.8	2.4	1.6	1.1	1.1	
24.....	13.9		4.8	3.3	2.3	3.4	2.8	2.4	1.5	1.1	1.1	
25.....	11.0		4.5	3.5	2.2	3.0	2.8	2.4	1.4	1.1	1.1	
26.....	5.5		4.5	3.7	2.4	2.9	2.8	2.4	1.3	1.1	1.1	
27.....	4.3		6.9	3.8	4.5	2.8	2.8	2.4	1.2	1.2	1.1	1.1
28.....	3.9		6.5	4.5	5.8	2.8	2.8	2.4	1.1	1.1	1.1	2.5
29.....	Frozen.		5.9	4.8	4.5	3.8	2.8	2.3	1.0	1.1	1.2	2.2
30.....			4.8	4.8	4.0	3.5	2.8	2.3	1.0	1.1	1.1	Frozen.
31.....			4.6		4.0		2.7	2.3		1.1		
Means.....			6.0	4.7	3.3	4.1	3.3	2.3	1.8	1.1	1.1	

## OHIO RIVER SYSTEM—MUSKINGUM RIVER, ZANESVILLE, OHIO.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	6.5	7.3	10.0	9.5	7.5	6.3	5.9	7.2	7.4	6.6	6.6	9.5
2.....	6.4	7.3	13.7	10.5	7.3	6.5	5.8	6.9	7.1	6.5	6.7	9.0
3.....	6.4	7.2	13.9	11.1	7.2	6.5	5.8	6.6	7.0	6.4	6.5	8.5
4.....	6.4	7.3	14.1	10.7	7.2	6.5	5.8	6.1	6.8	6.3	6.5	8.2
5.....	6.4	7.3	14.2	10.1	7.1	6.3	5.8	6.2	7.5	6.3	6.6	8.1
6.....	6.5	7.3	13.9	9.5	7.0	6.2	5.8	6.1	7.6	6.3	6.5	8.3
7.....	6.5	7.3	18.8	9.1	6.8	6.1	6.2	5.9	7.3	6.3	6.5	8.7
8.....	6.6	8.4	18.7	8.7	6.7	6.2	6.0	5.8	7.2	6.3	6.4	8.7
9.....	6.5	12.6	17.9	8.3	7.0	7.3	6.1	6.3	7.0	6.5	6.4	8.6
10.....	6.5	15.3	17.4	8.1	6.9	7.2	6.6	6.3	6.8	6.4	6.5	8.5
11.....	6.4	14.3	14.7	7.9	7.0	7.1	6.6	6.3	6.7	6.4	6.5	8.3
12.....	9.1	13.1	13.1	7.8	7.0	6.5	6.2	6.1	6.6	6.5	6.6	8.0
13.....	13.3	11.8	11.8	8.0	6.8	6.3	6.4	6.2	6.5	6.4	6.6	7.7
14.....	12.0	13.8	10.9	8.1	6.7	6.4	6.4	6.3	6.4	6.3	6.6	7.5
15.....	11.1	14.1	10.1	8.0	6.6	6.5	6.5	6.4	6.3	6.5	6.5	7.5
16.....	10.2	12.9	9.5	7.9	6.5	7.9	6.2	6.9	6.1	6.3	6.5	7.3
17.....	10.2	11.1	9.0	7.7	6.4	7.8	6.0	7.0	6.0	6.3	6.5	7.2
18.....	10.4	9.5	8.4	8.5	6.3	6.9	5.9	7.5	5.9	6.3	6.8	7.2
19.....	10.1	8.6	8.5	10.1	6.5	6.4	6.0	7.3	5.8	6.3	6.8	7.3
20.....	10.1	7.9	9.4	10.3	6.5	6.2	6.4	8.7	5.8	6.0	6.9	7.1
21.....	12.1	8.2	10.7	9.9	6.4	6.1	6.5	8.4	5.9	6.0	7.0	7.0
22.....	11.9	8.4	11.2	9.5	6.2	6.0	7.0	8.5	5.9	6.0	7.1	7.0
23.....	11.1	9.9	10.0	9.9	6.2	6.0	6.6	8.2	5.8	6.0	7.5	7.0
24.....	10.1	11.2	9.2	10.4	6.2	5.9	6.3	8.9	5.8	6.3	8.0	7.0
25.....	9.5	11.2	8.8	10.6	6.2	5.9	6.1	12.5	5.8	7.5	9.0	6.9
26.....	8.8	10.0	8.7	9.8	6.2	6.1	6.1	9.8	5.8	7.2	10.0	7.0
27.....	8.2	9.8	9.0	9.0	6.1	6.2	7.9	10.3	5.8	7.0	12.0	6.9
28.....	7.7	10.3	9.1	8.3	6.1	6.0	8.0	8.9	5.9	6.9	12.0	7.0
29.....	7.9		9.0	7.9	6.1	6.0	7.3	8.5	6.0	6.8	11.5	7.0
30.....	7.5		8.9	7.6	6.2	6.1	6.9	8.2	6.4	6.7	10.6	7.0
31.....	7.5		8.8		6.3		7.9	7.8		6.6		6.8
Means.....	8.7	10.1	11.7	9.1	6.6	6.4	6.4	7.5	6.4	6.5	7.5	7.7

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—MUSKINGUM RIVER, ZANESVILLE, OHIO—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	6.9	7.5	7.0	8.4	13.3	10.4	7.4	5.8	7.3	7.3	6.0	6.3
2.....	6.8	7.4	7.0	8.1	10.6	9.3	7.1	5.8	7.3	7.4	5.9	6.3
3.....	6.7	7.5	7.7	7.9	9.6	8.6	6.9	6.3	7.2	7.1	5.9	6.3
4.....	6.7	7.6	8.7	7.9	8.0	8.3	6.9	6.4	7.1	6.9	6.1	6.3
5.....	6.6	9.8	10.5	9.4	8.0	7.9	8.5	6.4	7.2	6.8	6.0	6.3
6.....	6.7	10.0	10.0	10.7	8.2	7.8	8.4	6.3	7.1	6.6	6.0	6.3
7.....	6.7	9.8	8.9	10.4	7.9	7.9	7.9	6.2	6.9	6.3	6.1	6.2
8.....	6.8	9.4	8.4	9.5	7.8	7.8	7.3	6.0	6.8	6.2	6.1	6.3
9.....	6.8	8.9	8.9	8.7	7.9	8.4	7.0	6.2	6.7	6.2	6.0	6.3
10.....	7.0	8.5	14.4	8.2	8.4	8.4	6.7	6.1	6.7	6.1	6.0	6.3
11.....	8.5	8.0	15.8	7.8	9.0	7.7	6.6	6.0	6.6	6.2	6.2	7.0
12.....	10.5	7.8	17.5	7.5	8.7	7.7	6.3	6.0	6.6	6.2	6.2	8.1
13.....	11.6	7.8	17.3	7.3	8.5	8.0	6.3	6.0	6.8	6.3	6.2	8.2
14.....	11.0	7.5	17.2	7.3	8.1	9.3	6.2	6.0	6.7	6.2	6.1	8.0
15.....	10.0	7.5	14.8	7.2	7.7	8.7	6.1	6.3	7.0	6.0	6.1	10.5
16.....	9.3	7.4	13.2	7.1	7.4	9.9	6.2	7.6	7.7	6.0	6.3	11.5
17.....	9.1	7.4	11.8	7.1	7.1	11.2	6.7	7.2	7.5	6.0	6.4	11.5
18.....	8.9	7.3	10.8	7.1	7.0	10.8	6.6	6.9	7.8	5.9	6.3	10.3
19.....	8.3	7.3	10.1	7.5	7.0	10.3	6.5	7.0	7.6	5.9	6.3	12.5
20.....	7.7	7.1	9.4	9.1	6.9	9.7	6.5	7.3	7.4	5.9	6.3	10.7
21.....	7.7	6.8	9.4	11.4	7.1	9.1	6.4	7.4	7.2	6.0	6.3	10.5
22.....	7.9	6.8	9.7	13.2	8.0	8.8	6.4	7.5	7.0	5.8	6.3	10.3
23.....	7.8	7.0	9.9	17.6	8.7	10.4	6.1	7.1	6.9	5.8	6.3	10.5
24.....	7.7	7.0	9.4	21.0	8.3	11.3	6.0	7.2	6.8	6.0	6.3	11.0
25.....	7.7	6.7	9.1	22.8	7.9	11.6	5.9	7.1	6.8	6.0	6.3	11.0
26.....	7.8	6.9	9.1	23.5	7.6	11.9	5.8	7.0	6.7	6.0	6.3	10.8
27.....	7.8	6.9	9.7	24.3	7.4	10.0	5.8	6.9	6.6	5.9	6.3	11.0
28.....	7.7	6.7	9.9	24.2	8.3	9.2	6.2	6.8	6.5	6.1	6.3	11.5
29.....	7.6		10.1	21.9	11.1	8.9	6.0	6.7	6.7	5.8	6.2	12.6
30.....	7.5		9.5	17.9	11.7	7.8	5.9	6.6	7.1	6.0	6.3	13.5
31.....	7.5		8.9		11.9		5.8	8.5		5.9		14.2
<b>Means.</b>	<b>8.0</b>	<b>7.7</b>	<b>10.8</b>	<b>12.1</b>	<b>8.6</b>	<b>9.2</b>	<b>6.6</b>	<b>6.7</b>	<b>7.0</b>	<b>6.2</b>	<b>6.2</b>	<b>9.3</b>
<b>1902</b>												
1.....	14.8	8.1	16.0	13.2	7.3	6.2	14.5	8.0	5.6	6.8	5.7	6.6
2.....	14.1	7.7	14.8	12.5	7.7	6.1	12.7	7.4	5.6	6.7	5.6	6.5
3.....	12.8	7.3	15.2	11.8	7.5	6.1	11.8	7.2	5.6	6.4	5.6	6.8
4.....	10.5	7.1	14.8	11.0	7.3	6.0	17.1	7.8	5.7	6.9	5.6	7.7
5.....	10.0	7.0	13.2	10.7	7.3	5.9	14.7	7.9	5.5	7.2	5.6	8.5
6.....	9.6	7.0	10.7	10.4	7.2	5.8	11.8	7.7	5.6	7.4	5.6	8.2
7.....	9.3	7.0	9.2	11.0	7.1	5.8	11.2	7.1	5.5	7.6	5.6	7.7
8.....	9.1	6.9	8.8	11.5	7.1	5.8	10.9	6.7	5.5	7.0	5.5	7.3
9.....	9.3	7.0	10.7	12.3	6.9	5.9	10.1	6.6	5.6	6.7	5.6	6.9
10.....	8.8	6.9	11.6	15.2	6.8	5.8	9.2	6.4	5.6	6.4	5.6	6.7
11.....	8.5	6.8	12.5	16.2	6.7	6.1	10.1	6.4	5.6	6.2	5.5	6.7
12.....	8.4	6.7	12.4	16.9	6.5	6.0	10.2	6.4	5.4	6.2	5.6	8.4
13.....	8.2	6.7	12.8	16.8	6.5	5.8	9.4	6.3	5.4	6.1	5.6	9.7
14.....	7.9	6.8	12.4	15.2	6.5	8.6	8.3	6.2	5.5	6.1	5.6	12.0
15.....	7.8	6.8	12.0	12.4	6.4	6.7	7.6	6.1	5.4	6.3	5.6	11.4
16.....	7.8	6.7	10.8	10.7	6.4	6.9	7.1	6.0	5.5	6.4	5.6	14.8
17.....	7.6	6.5	9.8	9.9	6.3	6.5	6.7	5.9	5.5	6.4	5.5	17.2
18.....	7.5	6.6	9.2	9.2	6.3	6.4	6.5	5.8	5.3	6.3	6.2	15.6
19.....	7.4	6.6	8.7	8.8	6.3	6.4	8.9	5.7	5.3	6.1	6.7	14.7
20.....	7.2	6.6	8.2	8.4	6.3	6.3	10.8	5.8	5.3	6.0	6.7	13.7
21.....	7.1	6.5	7.9	8.2	6.7	6.5	9.9	5.9	5.3	6.0	6.5	12.6
22.....	7.1	6.4	7.7	8.0	6.8	6.2	9.6	6.0	5.3	6.0	6.4	12.1
23.....	7.1	6.6	7.6	7.8	6.6	6.1	9.2	6.6	5.3	5.9	6.3	11.6
24.....	7.0	6.8	7.5	7.6	6.8	6.2	8.8	6.2	5.3	5.8	6.1	11.2
25.....	6.9	7.6	7.3	7.4	7.3	6.3	8.0	6.1	5.4	5.8	6.2	10.4
26.....	6.9	8.6	7.3	7.3	7.2	7.1	7.4	5.9	5.6	5.7	6.2	9.4
27.....	7.7	10.0	7.1	7.2	6.9	6.6	6.9	5.8	5.7	5.8	6.3	8.1
28.....	7.8	12.2	7.1	7.1	6.8	7.1	6.6	5.7	6.1	5.7	6.6	7.8
29.....	8.1		9.8	7.1	6.5	9.3	6.7	5.7	6.5	5.7	6.7	8.0
30.....	8.8		13.6	7.3	6.3	9.4	7.6	5.6	6.7	5.7	6.7	8.4
31.....	8.6		13.6		6.2		8.4	5.6		5.7		7.7
<b>Means.</b>	<b>8.7</b>	<b>7.3</b>	<b>10.7</b>	<b>10.6</b>	<b>6.8</b>	<b>6.5</b>	<b>9.6</b>	<b>6.4</b>	<b>5.6</b>	<b>6.3</b>	<b>6.0</b>	<b>9.8</b>

## OHIO RIVER SYSTEM—MUSKINGUM RIVER, ZANESVILLE, OHIO—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	7.4	16.6	23.8	12.2	7.7	6.4	6.3	5.5	7.7	5.3	7.3	7.5
2.....	7.3	15.4	22.5	11.2	7.6	6.2	6.1	5.7	7.2	5.3	7.3	7.5
3.....	10.1	13.9	22.2	11.2	7.6	6.2	6.0	5.8	6.8	5.4	7.3	7.5
4.....	16.9	17.5	22.2	11.3	7.5	6.1	5.8	5.8	6.2	5.3	7.3	7.4
5.....	16.3	19.5	19.7	13.0	7.3	6.0	5.9	5.8	6.1	5.5	7.3	7.4
6.....	15.8	17.4	16.6	13.0	7.1	6.0	5.9	5.6	5.9	5.6	7.3	7.4
7.....	15.1	16.7	14.3	12.5	7.1	6.0	5.9	5.6	5.9	5.6	7.4	7.4
8.....	13.6	15.6	17.7	11.8	7.0	6.2	6.1	5.5	5.7	6.6	7.4	7.4
9.....	11.3	14.5	22.4	13.6	6.9	6.6	6.0	5.5	5.7	7.4	7.4	7.4
10.....	8.7	12.6	21.3	12.3	6.8	6.7	6.0	5.5	5.7	8.2	7.3	7.4
11.....	8.5	10.9	23.3	12.0	6.7	6.8	6.3	5.5	5.7	8.1	7.3	7.4
12.....	10.1	11.4	23.3	13.4	6.6	6.3	6.0	5.7	5.7	7.7	7.3	7.4
13.....	9.9	12.1	21.3	17.7	6.6	6.2	6.1	5.7	5.9	7.5	7.3	7.3
14.....	10.7	12.1	19.8	17.2	6.4	6.2	5.9	5.7	5.9	7.5	7.3	7.3
15.....	11.2	11.2	17.9	20.3	6.4	6.2	5.7	5.6	5.9	7.4	7.3	7.3
16.....	10.9	14.2	14.4	20.2	6.4	6.2	5.7	5.5	5.5	7.5	7.3	7.3
17.....	10.1	13.6	12.0	19.2	6.3	6.2	5.6	5.5	5.3	7.5	7.6	7.3
18.....	10.0	12.8	12.9	17.9	6.3	6.1	5.6	5.5	5.3	7.4	7.9	7.3
19.....	9.6	11.2	13.0	16.2	6.3	6.0	5.6	5.7	5.6	7.5	8.9	7.3
20.....	9.5	10.5	12.1	14.5	6.1	6.0	5.6	5.6	5.6	7.5	8.7	7.8
21.....	9.5	10.1	11.7	12.5	6.1	6.3	6.0	5.6	5.9	7.5	8.1	10.3
22.....	9.3	9.8	12.1	10.4	6.1	6.5	5.9	5.7	5.8	7.4	7.9	9.8
23.....	9.3	9.1	12.1	9.7	6.4	6.8	5.9	6.0	5.4	7.4	7.7	9.5
24.....	9.4	9.2	11.5	9.1	6.8	6.8	5.7	6.0	5.3	7.4	7.5	10.0
25.....	9.3	9.1	11.1	8.9	7.4	6.9	5.8	5.9	5.3	7.4	7.6	9.6
26.....	8.9	9.2	10.7	8.9	7.6	7.1	5.7	5.9	5.2	7.4	7.5	9.4
27.....	8.9	9.6	9.8	8.9	7.6	6.7	5.6	5.7	5.2	7.4	7.4	8.9
28.....	10.9	18.5	9.2	8.8	7.1	6.3	5.6	5.6	5.3	7.3	7.5	8.9
29.....	14.9	.....	9.0	8.2	7.1	6.1	5.5	5.5	5.4	7.3	7.4	8.4
30.....	17.8	.....	8.6	7.9	6.9	6.0	5.5	8.2	5.4	7.3	7.4	8.5
31.....	17.6	.....	9.1	.....	6.5	.....	5.5	8.4	.....	7.3	.....	8.2
<b>Means.</b>	<b>11.3</b>	<b>13.0</b>	<b>15.7</b>	<b>12.8</b>	<b>6.8</b>	<b>6.3</b>	<b>5.8</b>	<b>5.8</b>	<b>5.8</b>	<b>7.0</b>	<b>7.5</b>	<b>8.0</b>
<b>1904</b>												
1.....	8.1	10.1	16.7	16.9	13.5	14.1	9.0	8.3	7.6	7.4	7.5	7.4
2.....	8.1	9.6	17.8	23.6	13.0	17.0	8.8	8.4	7.7	7.4	7.5	7.4
3.....	8.0	9.5	19.7	27.1	11.9	14.9	8.4	8.1	7.5	7.4	7.5	7.4
4.....	7.9	9.4	22.8	27.7	11.0	14.3	8.4	8.1	7.6	7.4	7.5	7.4
5.....	7.8	9.2	25.9	23.7	10.6	12.4	8.2	8.0	7.7	7.4	7.5	7.4
6.....	7.8	9.1	25.0	18.1	10.1	11.1	8.2	7.9	7.7	7.6	7.5	7.4
7.....	7.7	9.8	21.0	13.1	9.7	10.1	11.6	7.9	7.6	7.5	7.5	7.4
8.....	8.1	16.2	20.2	12.6	9.4	9.5	17.3	7.7	7.6	7.5	7.5	7.4
9.....	7.9	15.9	18.7	12.2	9.2	9.1	15.3	7.8	7.6	7.5	7.5	7.4
10.....	7.9	15.9	17.8	12.1	9.0	9.1	14.5	7.6	7.6	7.7	7.5	7.4
11.....	7.7	13.7	15.6	11.9	8.9	9.0	12.6	7.6	7.5	8.1	7.5	7.4
12.....	7.7	11.8	13.1	11.2	8.7	8.7	10.9	7.6	7.6	7.9	7.5	7.4
13.....	7.7	10.8	11.8	11.0	8.6	8.6	11.2	7.6	7.5	7.9	7.5	7.4
14.....	7.7	10.1	11.1	10.7	8.6	8.4	11.0	7.5	7.5	7.7	7.4	7.4
15.....	7.6	9.6	11.0	10.3	8.5	8.3	10.5	7.6	7.5	7.7	7.5	7.4
16.....	7.6	9.2	10.8	10.1	8.5	8.5	9.6	7.6	7.5	7.7	7.5	7.3
17.....	7.6	9.2	10.6	9.9	8.6	8.4	9.0	7.9	7.4	7.6	7.5	7.4
18.....	7.6	9.1	10.2	9.9	8.6	8.2	8.7	7.8	7.4	7.5	7.5	7.4
19.....	7.6	9.1	11.8	9.5	8.6	8.1	8.5	7.7	7.4	7.5	7.5	7.4
20.....	7.6	9.0	12.7	9.2	8.5	8.1	8.6	7.7	7.4	7.6	7.5	7.4
21.....	8.0	9.0	12.6	9.1	8.5	8.3	8.8	7.6	7.4	7.6	7.5	7.4
22.....	14.8	12.6	12.4	8.9	8.5	9.0	8.5	7.6	7.4	7.5	7.5	7.4
23.....	24.2	12.0	12.6	8.9	8.5	9.6	8.3	7.6	7.4	7.4	7.5	7.3
24.....	26.4	13.1	13.8	8.8	8.6	9.5	8.1	7.8	7.4	7.6	7.5	7.5
25.....	27.2	13.3	13.8	8.9	9.3	9.0	8.1	7.8	7.4	7.5	7.5	8.0
26.....	24.3	13.1	14.2	9.8	10.4	8.4	8.1	8.2	7.4	7.6	7.5	8.4
27.....	20.5	11.5	21.3	13.2	10.2	8.2	8.1	7.9	7.5	7.5	7.4	11.1
28.....	14.4	10.4	20.5	14.4	10.3	8.1	8.0	8.1	7.5	7.5	7.4	12.9
29.....	11.6	10.3	18.8	14.2	10.4	8.3	8.3	8.0	7.5	7.5	7.5	12.5
30.....	10.9	.....	15.6	13.9	9.7	8.7	9.1	7.8	7.5	7.4	7.5	10.7
31.....	10.6	.....	14.1	.....	9.6	.....	8.5	7.7	.....	7.4	7.5	9.3
<b>Means.</b>	<b>11.2</b>	<b>11.1</b>	<b>15.9</b>	<b>13.4</b>	<b>9.6</b>	<b>9.8</b>	<b>9.7</b>	<b>7.8</b>	<b>7.5</b>	<b>7.6</b>	<b>7.5</b>	<b>8.1</b>

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—LITTLE KANAWHA RIVER, GLENVILLE, W. VA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....									0.0	-1.5	-1.6	1.4
2.....									0.0	-1.5	-2.0	1.2
3.....									0.0	-1.6	-2.0	1.0
4.....									0.0	-1.7	-1.6	1.2
5.....									0.0	-1.7	-1.0	8.0
6.....									-2.0	-1.7	-1.3	3.0
7.....									-2.0	-1.7	-1.3	1.8
8.....									-2.0	-1.0	-1.0	2.8
9.....									-2.0	-1.0	-0.5	2.0
10.....									-2.2	-1.0	-0.5	1.7
11.....									-2.2	-1.4	-0.7	1.2
12.....									-2.2	-1.4	-0.7	0.8
13.....									-2.3	-1.4	-1.0	0.7
14.....									-2.3	-1.4	-1.2	0.6
15.....									-2.3	-1.4	-1.8	0.6
16.....									-2.3	-1.5	-2.0	0.4
17.....									-2.3	-1.5	-2.0	0.4
18.....									-2.3	-1.5	-2.0	0.4
19.....									-2.3	-1.6	-2.0	0.4
20.....									-2.3	-1.6	-1.6	0.3
21.....									-2.3	-1.6	-0.5	0.2
22.....									-2.4	-1.7	1.5	0.0
23.....									-2.0	-1.2	2.0	-0.2
24.....									-1.5	-0.6	2.2	-0.4
25.....									-1.7	0.0	2.5	-0.4
26.....									-1.7	-0.5	14.8	-0.4
27.....									-1.7	-0.8	5.5	-0.6
28.....									-1.7	-1.0	2.3	-0.4
29.....									-1.7	-1.0	2.0	-0.4
30.....									-1.5	-1.4	1.7	-0.6
31.....										-1.6		1.5
Means.....									-1.7	-1.3	0.2	0.9
<b>1901</b>												
1.....	2.0	2.4	-0.8	1.6	1.8	2.0	0.2	-2.0	-0.5	1.0	-2.5	1.0
2.....	1.4	2.0	-0.4	1.6	1.5	1.8	0.7	-2.0	-0.5	1.0	-2.5	1.0
3.....	1.2	1.7	1.0	10.6	1.2	1.5	1.0	-2.0	0.5	1.2	-2.5	1.2
4.....	1.2	6.8	1.6	24.3	1.0	1.2	2.5	-2.2	0.5	0.8	-2.5	2.5
5.....	1.0	3.8	5.5	4.8	1.0	1.2	3.5	-2.2	0.0	0.6	-2.3	2.0
6.....	1.0	2.8	3.5	3.3	0.8	1.0	2.5	-1.8	-0.3	0.2	-2.1	1.7
7.....	1.0	2.4	2.5	3.3	0.8	2.0	3.8	-1.4	-0.5	0.0	-2.1	1.2
8.....	-0.2	1.6	3.0	2.0	0.5	2.8	3.5	-1.4	-0.8	0.0	-2.2	1.0
9.....	-0.4	1.6	3.4	2.0	0.5	2.5	2.6	-1.6	-1.0	-0.2	-2.2	1.0
10.....	-0.4	2.4	3.0	1.7	1.5	2.0	2.0	-1.6	-1.2	-0.4	-2.2	3.0
11.....	1.0	2.4	3.3	1.5	2.5	1.8	1.5	2.0	2.5	-0.6	-2.3	2.5
12.....	3.9	2.0	3.5	2.0	2.6	1.4	1.0	2.5	2.7	-0.8	-2.0	2.0
13.....	2.8	1.6	3.0	2.0	2.5	1.0	0.4	1.7	2.0	-0.8	-1.4	1.7
14.....	1.7	1.6	2.5	3.2	2.0	0.6	0.2	1.0	1.8	-1.2	-1.4	2.0
15.....	1.6	1.4	2.0	5.2	1.8	0.3	2.3	1.5	1.5	-1.2	-1.4	19.0
16.....	1.6	1.2	2.0	2.5	1.5	0.0	1.3	1.5	1.8	-1.4	-1.3	3.6
17.....	1.4	1.7	1.8	2.0	1.2	2.8	1.6	0.7	2.4	-1.6	-1.3	2.2
18.....	1.2	2.0	1.2	2.0	1.0	2.2	1.0	1.0	3.5	-1.6	-1.3	2.0
19.....	1.2	1.5	1.0	3.2	1.0	2.0	0.6	0.5	2.8	-1.8	-1.5	1.4
20.....	1.2	1.0	0.8	19.5	0.9	2.0	2.6	0.5	2.0	-1.8	-1.5	1.0
21.....	1.4	0.8	4.5	9.6	0.9	2.5	1.4	0.0	2.0	-2.0	-1.6	1.0
22.....	2.0	0.8	3.0	5.2	3.2	2.0	0.5	-0.4	1.7	-2.0	-1.6	0.5
23.....	2.3	0.6	2.5	6.2	6.0	3.5	0.0	-0.8	1.0	-2.2	-1.0	1.2
24.....	1.7	0.0	2.2	3.8	2.5	3.2	1.0	-0.8	0.6	-2.2	3.0	2.6
25.....	1.7	-0.4	1.8	6.8	1.8	2.0	0.4	-1.0	0.2	-2.3	3.5	3.0
26.....	2.2	-0.4	2.0	3.0	2.5	2.8	0.0	-1.0	0.0	-2.3	3.0	5.0
27.....	2.8	-0.6	5.5	2.5	12.3	2.0	-0.6	-1.2	-0.2	-2.3	2.4	7.5
28.....	2.8	-0.8	3.5	2.3	9.0	1.2	-1.4	-1.2	-0.4	-2.4	2.0	3.5
29.....	2.3		2.2	2.0	3.8	0.8	-1.6	-1.4	-0.4	-2.4	1.6	14.6
30.....	1.7		1.8	2.0	4.2	0.2	-1.6	-1.4	1.0	-2.4	1.0	14.5
31.....	2.0		2.0		2.5		-1.8	-1.0		-2.5		3.5
Means.....	1.6	1.6	2.4	4.7	2.5	1.7	1.0	-0.5	0.8	-1.1	-0.9	3.5

## OHIO RIVER SYSTEM—LITTLE KANAWHA RIVER, GLENVILLE, W. VA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	2.5	3.0	6.6	4.0	-0.6	1.0	3.4	2.5	-2.0	2.8	-2.0	1.7
2.....	2.0	5.6	2.8	3.0	-0.6	0.5	2.5	3.6	-2.2	3.0	-2.0	2.0
3.....	2.0	6.0	3.5	2.5	1.8	0.0	2.0	2.4	-2.2	2.0	-2.2	3.5
4.....	1.4	3.7	2.4	2.5	1.4	0.0	1.5	1.6	-2.4	2.0	-2.2	3.0
5.....	1.0	2.7	2.0	2.0	2.0	-0.4	0.5	1.0	-2.4	1.8	-2.3	3.4
6.....	1.0	2.0	1.4	1.7	1.6	-0.7	0.0	0.6	-2.5	1.3	-2.3	3.5
7.....	0.6	2.0	2.0	3.3	1.4	-1.0	1.0	0.0	-1.0	0.6	-2.3	3.0
8.....	0.0	1.6	3.0	4.5	0.6	-1.0	2.4	-0.4	-1.8	0.0	-2.5	3.5
9.....	0.0	1.0	12.4	5.5	0.0	-1.3	2.5	-0.8	-2.0	-0.5	-2.5	3.0
10.....	-0.4	1.0	8.0	8.2	-0.4	-1.5	2.0	3.0	-2.0	-0.8	-2.6	2.3
11.....	-1.0	0.6	3.6	12.0	-0.6	-1.3	1.4	2.2	-2.2	-1.3	-2.6	3.0
12.....	-1.0	0.3	2.4	5.2	-1.0	-1.6	1.0	1.4	-2.2	3.5	-2.6	6.6
13.....	-1.4	0.0	3.5	3.5	-1.2	-2.0	0.6	1.0	-2.4	3.0	-2.5	12.6
14.....	-1.4	0.0	3.0	2.5	-1.2	-2.2	0.0	0.6	-2.4	2.5	-2.4	5.4
15.....	-1.0	-0.3	2.4	2.0	-1.5	-2.2	0.0	0.0	-2.5	2.0	-2.4	3.0
16.....	-1.0	-0.3	2.0	1.5	-1.8	-2.3	-0.6	-0.6	-2.5	1.5	-2.4	16.2
17.....	-1.3	0.0	4.7	1.5	-1.8	-2.3	-1.0	-1.0	-2.5	1.0	-2.3	8.1
18.....	-1.4	0.0	3.0	1.0	-1.2	-2.5	-1.4	-1.2	-2.6	1.0	-2.3	3.8
19.....	-1.4	-0.3	2.2	0.6	-1.4	-2.0	3.0	-1.5	-2.6	0.8	-2.0	3.0
20.....	-1.7	-0.3	2.0	0.3	-1.7	-2.0	3.2	-1.5	-2.6	0.4	-2.0	2.3
21.....	0.0	1.0	1.7	0.0	-1.7	1.0	2.7	1.5	-2.7	0.0	-2.2	2.0
22.....	3.4	2.0	1.3	-0.4	-2.0	2.5	2.0	1.2	-2.7	-0.2	-2.2	3.5
23.....	3.0	3.0	1.0	-0.8	-2.0	1.6	1.4	0.6	-2.8	-0.5	-2.0	2.5
24.....	2.4	4.2	1.0	-1.2	-2.0	1.0	1.0	0.0	-2.8	-0.8	-2.0	2.0
25.....	3.0	6.3	0.6	-1.5	4.3	1.0	0.6	0.0	-2.8	-1.0	3.5	2.0
26.....	3.0	12.5	0.3	-1.8	4.6	5.2	0.0	-0.6	2.4	-1.0	6.6	1.5
27.....	13.7	4.1	0.0	-2.0	3.2	3.4	0.0	-0.8	3.0	-1.2	3.5	1.0
28.....	9.8	7.4	0.0	-2.0	2.0	3.0	-0.6	-1.2	3.2	-1.2	2.0	0.6
29.....	3.7		2.4	-2.0	1.6	3.4	-0.6	-1.6	2.0	-1.5	2.0	1.0
30.....	6.5		3.0	-1.0	1.6	2.8	-0.6	-1.6	1.2	-1.5	1.7	9.7
31.....	4.3		2.4		1.0		1.4	-2.0		-1.8		3.5
<b>Means.</b>	<b>1.6</b>	<b>2.5</b>	<b>2.8</b>	<b>1.8</b>	<b>0.1</b>	<b>0.0</b>	<b>1.0</b>	<b>0.3</b>	<b>-1.6</b>	<b>0.5</b>	<b>-1.2</b>	<b>3.9</b>
<b>1903</b>												
1.....	3.0	3.0	12.8	2.6	0.0	2.6	0.5	3.0	1.0	-2.8	-2.0	-1.4
2.....	2.4	5.6	3.6	2.0	-0.4	3.0	0.0	2.5	1.6	-2.6	-2.1	-1.2
3.....	8.8	3.0	2.4	1.4	-1.0	2.5	-0.4	2.0	1.8	-2.2	-2.1	-0.6
4.....	4.8	8.0	1.6	2.0	1.0	2.0	-0.8	1.6	1.4	-2.2	-2.2	0.0
5.....	3.0	7.0	1.0	2.4	2.0	2.5	-1.0	1.2	1.0	-2.0	-2.2	1.0
6.....	3.0	3.4	0.6	2.0	1.0	2.5	-1.0	1.0	0.5	-1.5	-2.0	1.0
7.....	2.5	2.6	2.6	2.0	0.4	4.7	-1.4	1.0	0.5	-1.0	-2.0	0.4
8.....	2.5	2.0	3.5	3.6	0.0	3.0	-1.8	0.5	0.0	1.0	-2.1	0.4
9.....	2.0	1.4	5.5	5.6	-0.6	2.0	-2.0	0.0	-0.3	2.5	-2.1	0.0
10.....	2.0	1.0	3.4	3.5	-1.0	1.7	-2.2	-0.3	-0.3	2.0	-2.2	-0.4
11.....	2.4	2.0	2.0	2.5	-1.4	1.5	-2.2	-0.7	1.0	1.0	-2.2	-0.8
12.....	7.0	3.0	2.0	2.0	-1.8	1.0	-2.2	-1.0	0.5	0.6	-2.2	-1.0
13.....	3.6	2.4	1.6	2.0	-2.0	0.5	-2.2	-1.0	0.0	1.6	-2.0	-1.4
14.....	2.4	2.0	1.0	3.0	-2.0	0.5	-1.5	-1.2	-0.5	2.0	-2.0	0.0
15.....	2.0	3.0	1.0	3.7	-2.3	0.0	-1.2	-1.4	-0.8	1.4	-2.1	-0.5
16.....	1.7	14.0	0.6	11.4	-2.3	-0.4	-1.6	-1.6	-1.2	1.0	-2.1	-0.8
17.....	1.7	7.0	0.0	4.0	-2.5	-0.4	-2.0	-1.6	-1.2	0.6	2.0	-1.0
18.....	2.0	3.4	0.0	3.0	-2.5	-0.8	-2.0	-1.8	-1.6	1.4	3.0	-1.0
19.....	2.0	2.0	-0.6	2.3	-2.7	-1.0	-2.2	-2.0	-1.8	0.8	2.2	-1.3
20.....	1.5	2.0	-1.0	2.0	-2.7	-1.0	-2.2	-2.0	-2.0	0.4	1.0	1.5
21.....	3.0	2.0	6.5	2.0	-2.7	3.0	-2.4	-1.4	-2.0	0.0	0.6	1.5
22.....	3.0	2.4	3.5	2.0	-2.7	3.0	-2.4	-1.0	-2.2	-0.4	0.6	1.8
23.....	2.4	2.4	15.6	1.4	2.5	3.6	-2.4	-1.0	-2.2	-0.8	0.0	1.5
24.....	1.5	3.5	12.6	1.0	2.5	2.4	-2.6	-1.4	-2.4	-1.0	-0.4	1.0
25.....	2.0	3.0	3.5	0.5	2.7	1.6	-2.6	-1.6	-2.4	-1.0	-0.8	1.5
26.....	2.0	3.0	2.4	3.0	6.0	1.0	-2.8	-1.6	-2.6	-1.4	-1.0	2.5
27.....	1.5	3.4	2.0	3.4	4.3	0.5	-2.8	-2.0	-2.6	-1.6	-1.2	2.0
28.....	1.5	18.6	2.0	2.0	3.5	2.0	-2.8	-2.0	-2.7	-1.8	-1.2	1.6
29.....	1.0		1.7	1.6	3.0	1.0	-2.9	-2.3	-2.7	-1.8	-1.3	1.0
30.....	1.0		2.0	1.0	2.5	0.5	-2.0	-1.0	-2.8	-2.0	-1.4	1.0
31.....	0.6		3.0		2.0		2.5	1.0		-2.0		0.4
<b>Means.</b>	<b>2.6</b>	<b>4.1</b>	<b>3.2</b>	<b>2.7</b>	<b>0.1</b>	<b>1.5</b>	<b>-1.7</b>	<b>-0.5</b>	<b>-0.8</b>	<b>-0.4</b>	<b>-1.0</b>	<b>0.3</b>

## OHIO RIVER SYSTEM—LITTLE KANAWHA RIVER, GLENNVILLE, W. VA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	0.4	-1.0	2.0					-0.6	0.0	-0.7	-0.8	0.3
2.....	1.0	-1.0	1.6					-0.8	-0.3	-0.9	-1.0	0.0
3.....	2.5	-1.4	1.6					-0.5	-0.5	-1.0	-0.5	0.2
4.....	2.0	-1.6	5.6					-0.3	-0.8	-1.2	-0.3	0.4
5.....	1.4	-1.8	3.0					0.0	-0.6	-1.0	0.0	0.2
6.....	1.0	-2.0	2.0					-0.2	-0.4	-0.9	-0.2	0.0
7.....	1.0	-2.0	5.5					-0.4	0.0	-1.0	-0.3	-0.4
8.....	0.6	2.5	4.0					-0.6	-0.2	-0.9	-0.4	-0.4
9.....	-0.3	2.0	2.4					-0.8	-0.4	-1.1	-0.5	0.2
10.....	0.0	1.4	1.4					-0.6	-0.6	-1.0	-0.7	0.0
11.....	-0.4	1.0	0.8					0.0	-0.8	-0.9	-0.5	0.4
12.....	-0.7	0.5	2.5				0.5	-0.4	-0.6	-1.1	-0.2	0.6
13.....	0.0	0.0	2.0				0.5	-0.6	-0.4	-1.0	0.0	0.4
14.....	0.5	0.0	2.0				1.0	-0.8	-0.5	-1.2	0.2	0.2
15.....	1.0	1.5	2.0				0.4	-0.8	-0.3	-1.0	0.0	0.0
16.....	1.1	2.0	2.6				0.3	-0.5	-0.6	-1.2	-0.2	-0.2
17.....	3.0	1.4	2.0				0.2	-0.2	-0.8	-1.0	-0.4	0.0
18.....	2.0	1.4	1.6				0.6	0.0	-1.0	-0.9	-0.3	0.2
19.....	1.4	2.6	1.0				0.5	-0.2	-0.8	-1.0	-0.4	0.4
20.....	1.0	2.0	0.6				0.8	-0.2	-0.6	-1.1	-0.6	0.6
21.....	1.0	1.4	1.0				0.4	-0.4	-0.4	-1.2	-0.4	0.4
22.....	2.4	3.0	0.7				0.6	0.0	-0.6	-1.1	-0.3	0.5
23.....	3.0	2.4	9.0				0.2	-0.2	-0.4	-0.8	-0.2	0.6
24.....	2.0	2.0	5.0				0.0	0.0	-0.8	0.0	0.0	0.7
25.....	1.6	1.5	3.0				0.2	-0.4	-1.2	-0.3	-0.2	3.0
26.....	1.0	1.0	2.5				0.4	-0.4	-0.9	-0.6	-0.4	2.0
27.....	1.0	1.0	3.0				0.3	0.0	-1.0	-0.8	0.0	1.5
28.....	0.6	3.0	2.2				0.0	-0.2	-0.8	-0.6	0.0	2.0
29.....	0.0	2.5	1.0				0.2	0.0	-0.9	-0.8	0.2	1.5
30.....	-0.4		0.6				0.0	0.0	-0.7	-0.7	0.4	1.0
31.....	-0.4		1.6				0.2	-0.2		-0.9		0.5
Means.	1.0	0.9	2.4				0.4	-0.3	-0.6	-0.9	-0.3	0.5

## OHIO RIVER SYSTEM—LITTLE KANAWHA RIVER, CRESTON, W. VA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....										1.3	2.3	3.5
2.....										1.3	2.2	3.3
3.....									1.9	1.3	2.0	3.1
4.....									1.8	1.3	1.8	3.2
5.....									1.7	1.4	1.6	10.6
6.....									1.5	1.4	1.4	8.8
7.....									1.2	1.4	1.4	5.6
8.....									1.0	1.4	0.8	5.0
9.....									0.7	1.4	0.2	6.0
10.....									0.5	1.4	0.5	5.0
11.....									0.4	1.4	0.7	4.1
12.....									0.2	1.4	0.9	3.6
13.....									-0.1	1.4	1.0	3.4
14.....									-0.2	1.4	1.3	3.4
15.....									-0.3	1.4	1.6	3.3
16.....									-0.4	1.4	1.4	3.0
17.....									-0.5	1.3	1.8	3.0
18.....									-0.6	1.3	2.3	3.0
19.....									-0.7	1.4	2.6	3.0
20.....									-0.8	1.1	2.6	2.9
21.....									-0.9	1.1	2.9	2.7
22.....									-1.0	1.3	3.6	2.7
23.....									-1.0	1.1	4.2	2.7
24.....									-1.0	1.1	3.7	2.6
25.....									-1.0	1.1	3.9	2.6
26.....									-1.1	0.8	7.2	2.5
27.....									-1.2	0.1	13.6	2.5
28.....									-1.2	0.2	7.5	2.5
29.....									-1.2	1.2	3.9	2.5
30.....									-1.3	1.8	3.6	2.6
31.....										2.1		2.9
Means.									-0.1	1.3	2.8	3.7



## OHIO RIVER SYSTEM—LITTLE KANAWHA RIVER, CRESTON, W. VA.—Continued

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	6.3	5.7	2.7	3.9	3.7	4.7	3.2	2.3	2.0	2.0	.....	3.8
2.....	4.9	5.2	2.7	3.6	3.6	4.6	3.1	2.2	2.0	2.0	.....	3.8
3.....	4.0	5.0	2.7	8.0	3.5	3.8	3.0	2.1	2.4	2.0	.....	3.8
4.....	3.6	8.9	2.7	23.5	3.3	3.6	3.0	2.0	2.4	1.4	.....	4.4
5.....	3.3	10.7	3.3	19.0	3.2	3.4	3.4	1.8	2.4	.....	.....	4.4
6.....	3.1	6.6	7.5	7.7	3.2	3.3	4.3	1.7	2.4	.....	.....	4.3
7.....	3.1	4.7	5.0	6.6	3.1	6.0	5.0	1.5	2.3	.....	.....	4.2
8.....	3.1	4.1	3.9	6.4	3.1	6.0	4.3	1.2	2.2	1.4	.....	4.1
9.....	3.1	4.1	4.0	5.7	4.0	4.2	3.9	1.1	2.2	1.4	.....	4.0
10.....	3.1	4.4	5.6	4.6	3.7	3.5	3.7	1.1	2.0	1.3	.....	3.9
11.....	3.2	4.5	6.9	4.1	4.7	3.3	3.3	1.0	2.0	1.2	.....	3.8
12.....	5.7	4.2	6.3	3.8	5.6	3.1	3.1	1.2	2.0	1.1	.....	4.0
13.....	7.8	3.8	5.0	3.7	5.0	3.1	3.0	1.2	2.0	1.1	.....	3.8
14.....	5.5	3.5	4.4	3.6	4.9	3.0	3.0	1.2	1.8	1.2	.....	3.8
15.....	3.9	3.3	4.1	10.7	4.4	3.2	3.0	0.9	1.7	1.2	.....	17.5
16.....	3.7	3.3	3.8	7.3	3.9	3.6	3.1	0.8	1.4	1.2	.....	13.5
17.....	3.5	3.3	3.6	5.4	3.6	5.3	3.2	1.0	1.9	1.3	.....	6.0
18.....	3.4	3.3	3.5	4.6	3.4	5.4	3.2	1.2	4.0	1.4	.....	4.5
19.....	3.3	3.3	3.4	7.0	3.3	4.5	3.2	0.8	3.9	1.5	.....	4.0
20.....	3.1	3.2	3.3	25.8	3.3	3.6	3.1	0.8	3.7	1.7	.....	3.0
21.....	3.0	3.2	3.9	21.9	3.1	3.6	3.2	1.2	3.6	1.7	.....	2.5
22.....	3.3	3.1	7.1	12.0	6.0	3.5	3.1	1.3	3.4	1.8	.....	2.5
23.....	5.0	3.1	5.1	14.2	12.7	11.0	3.0	1.4	3.0	1.8	.....	2.5
24.....	4.6	3.0	4.4	14.3	7.1	11.8	3.0	1.2	2.9	1.8	.....	2.5
25.....	3.9	2.9	3.9	12.2	4.7	6.2	2.9	1.2	2.6	1.8	.....	3.0
26.....	3.9	2.8	3.9	9.3	3.9	7.0	2.9	1.2	2.5	1.9	.....	8.0
27.....	3.9	2.8	9.7	6.3	9.0	7.3	2.7	1.2	2.4	2.4	.....	7.0
28.....	3.9	2.7	8.5	5.0	13.2	4.5	2.6	1.2	2.3	2.5	.....	7.0
29.....	3.8	.....	5.8	3.9	9.8	3.7	2.5	1.2	2.2	2.7	.....	10.0
30.....	3.8	.....	4.7	3.8	9.2	3.5	2.4	1.2	2.2	2.8	.....	19.5
31.....	4.1	.....	4.2	.....	6.4	.....	2.3	1.4	.....	2.8	.....	10.0
<b>Means.</b>	<b>4.0</b>	<b>4.2</b>	<b>4.7</b>	<b>8.9</b>	<b>5.2</b>	<b>4.8</b>	<b>3.2</b>	<b>1.3</b>	<b>2.5</b>	<b>1.7</b>	<b>.....</b>	<b>5.8</b>
<b>1902</b>												
1.....	1.0	9.0	15.6	7.5	3.6	3.0	4.9	2.7	1.2	1.0	1.8	3.2
2.....	0.6	9.2	8.2	8.8	3.5	2.9	4.6	3.1	1.1	3.0	1.6	4.0
3.....	0.2	10.0	7.9	6.9	3.4	2.8	3.7	3.6	1.0	3.1	1.5	4.7
4.....	0.2	5.0	6.9	4.9	3.6	2.7	3.3	3.0	0.9	2.4	1.4	5.3
5.....	1.2	7.0	5.8	4.4	3.6	2.7	3.0	2.8	0.6	2.4	1.3	5.0
6.....	1.2	5.0	4.5	4.0	3.4	2.7	2.8	2.6	0.5	2.4	1.3	6.5
7.....	1.2	4.2	4.5	4.0	3.2	2.7	2.7	2.4	0.4	2.2	1.4	5.5
8.....	1.2	3.5	5.5	7.5	3.0	2.7	3.8	2.1	0.3	2.1	1.5	6.8
9.....	1.0	3.4	14.0	8.5	3.0	2.6	3.6	1.9	0.7	2.3	1.5	6.0
10.....	0.8	3.3	15.4	13.0	2.9	2.5	3.6	2.6	0.5	2.3	1.6	4.4
11.....	0.2	3.2	9.3	15.4	2.8	2.5	3.2	3.6	1.0	2.3	1.6	4.0
12.....	3.9	3.0	5.4	10.4	2.8	2.4	3.0	3.1	1.0	2.7	1.2	8.0
13.....	3.8	3.0	6.5	9.5	2.7	2.4	2.9	2.8	1.0	5.0	1.2	13.0
14.....	3.7	3.0	8.0	5.5	2.7	2.4	2.6	2.6	1.0	3.5	1.2	12.2
15.....	3.7	3.0	6.0	4.5	2.6	2.3	2.4	2.5	1.0	3.2	1.3	7.1
16.....	3.6	3.0	5.2	4.0	2.5	2.3	2.3	2.4	1.0	3.0	1.1	16.5
17.....	3.5	3.0	9.2	3.9	2.4	3.2	2.1	2.3	1.0	2.9	1.0	16.6
18.....	3.3	3.0	8.0	3.8	2.3	2.9	1.9	2.1	1.0	2.7	1.0	8.8
19.....	3.1	3.0	6.0	3.6	2.3	2.5	2.2	1.8	1.0	2.7	1.3	5.5
20.....	3.0	3.0	4.6	3.3	2.3	2.5	3.1	1.9	1.0	2.6	1.0	4.4
21.....	2.9	2.8	4.3	3.3	2.2	3.1	3.5	1.8	1.0	2.6	1.0	4.2
22.....	3.0	2.7	4.3	3.2	2.5	3.2	3.6	1.7	1.0	2.5	1.3	4.0
23.....	3.0	4.0	4.2	3.2	2.6	3.0	3.2	2.0	1.0	2.4	1.5	5.1
24.....	3.0	6.0	3.1	3.0	2.6	2.9	2.9	2.4	1.0	2.4	2.5	4.2
25.....	8.0	10.7	3.9	3.0	3.2	2.7	2.7	2.4	1.0	2.4	4.7	3.9
26.....	15.0	21.7	3.9	3.0	9.8	4.7	2.6	2.2	1.0	2.3	9.2	3.7
27.....	21.9	11.8	3.8	3.0	6.0	5.5	2.4	2.0	1.0	2.2	8.1	3.5
28.....	1.3	10.0	3.7	3.0	4.7	3.7	2.2	1.9	1.0	2.2	4.8	3.2
29.....	1.0	.....	4.0	2.9	4.1	5.0	2.0	1.7	0.9	2.1	3.9	3.5
30.....	1.0	.....	7.5	3.7	3.5	4.6	1.9	1.6	0.5	2.0	3.4	13.8
31.....	1.2	.....	5.5	.....	3.1	.....	3.0	1.4	.....	1.9	.....	9.4
<b>Means.</b>	<b>2.8</b>	<b>5.7</b>	<b>6.6</b>	<b>5.5</b>	<b>3.3</b>	<b>3.0</b>	<b>3.0</b>	<b>2.4</b>	<b>0.9</b>	<b>2.5</b>	<b>2.2</b>	<b>6.6</b>

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—LITTLE KANAWHA RIVER, CRESTON, W. VA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	5.5	12.4	21.5	4.3	3.6	.....	2.9	1.2	1.3	0.8	0.9	2.1
2.....	4.5	8.6	11.0	3.9	3.7	.....	2.8	1.2	1.3	0.8	0.8	2.0
3.....	9.7	4.4	5.9	3.7	3.3	.....	2.6	1.6	1.3	0.7	0.8	1.9
4.....	11.0	10.7	4.8	4.5	3.0	.....	2.5	1.6	1.4	0.7	0.9	1.9
5.....	7.0	14.3	4.2	4.4	3.0	.....	2.9	1.7	1.2	0.7	0.8	1.9
6.....	5.5	7.0	4.0	4.2	2.9	.....	3.2	1.6	1.1	0.8	0.7	1.9
7.....	4.8	5.0	3.9	4.2	3.4	.....	3.0	1.5	1.0	0.9	0.6	1.9
8.....	4.5	4.5	8.0	5.4	3.2	.....	2.9	1.5	1.0	1.0	.....	1.8
9.....	4.2	4.2	9.5	14.1	3.0	.....	2.8	1.7	1.3	1.2	.....	1.8
10.....	4.0	3.9	8.5	9.1	3.0	.....	2.7	1.6	1.4	1.5	0.3	1.7
11.....	4.3	3.6	6.7	5.6	2.9	.....	2.5	1.6	1.3	1.8	0.1	1.7
12.....	11.2	4.7	5.9	4.7	2.8	.....	2.9	1.5	1.1	2.1	0.1	1.6
13.....	9.8	5.1	5.5	4.3	2.7	.....	3.0	1.4	1.1	2.2	0.2	1.6
14.....	6.8	4.5	4.6	11.0	2.6	.....	2.8	1.3	1.1	2.4	.....	1.6
15.....	6.6	4.3	4.2	11.3	2.5	.....	2.6	1.2	1.1	2.6	0.5	1.6
16.....	6.6	16.9	3.9	15.6	2.4	.....	2.4	1.0	1.0	2.8	0.6	1.6
17.....	6.6	17.0	3.6	11.4	2.2	.....	2.3	1.0	1.1	2.9	1.0	1.8
18.....	6.2	7.8	3.4	7.3	2.1	.....	2.1	1.0	1.1	2.9	1.0	1.9
19.....	6.0	7.6	3.2	5.0	2.0	.....	2.0	0.9	1.1	2.9	3.7	1.9
20.....	5.9	6.6	3.0	4.7	2.6	.....	1.9	0.8	1.1	2.8	3.6	2.0
21.....	6.6	6.6	3.4	4.4	2.7	.....	1.8	0.7	1.1	2.6	3.2	2.3
22.....	10.3	6.0	8.6	4.2	2.2	.....	1.7	0.6	1.1	2.4	3.1	2.6
23.....	9.0	5.4	12.9	4.0	3.1	3.5	1.6	0.6	1.1	2.0	3.0	2.2
24.....	6.1	7.0	19.6	3.8	3.2	3.9	1.5	0.5	1.0	2.0	2.9	2.4
25.....	4.6	6.6	8.6	3.5	3.4	3.7	1.4	0.5	1.0	2.0	2.8	2.8
26.....	4.3	5.5	5.6	4.7	11.0	3.5	1.2	0.5	1.0	2.0	2.7	5.5
27.....	4.2	5.6	4.7	7.0	7.0	3.2	1.1	0.5	1.0	2.0	2.6	6.6
28.....	4.2	19.0	4.3	5.3	5.2	3.1	1.0	0.5	1.0	2.0	2.4	5.3
29.....	4.4	.....	4.6	4.3	4.1	3.1	0.9	0.5	0.9	2.0	2.2	5.0
30.....	4.6	.....	4.6	3.9	3.9	3.0	0.8	1.1	0.8	2.0	2.1	4.6
31.....	4.4	.....	4.7	.....	4.2	.....	0.8	1.2	.....	1.6	.....	4.4
<b>Means.</b>	<b>6.2</b>	<b>7.7</b>	<b>6.7</b>	<b>6.1</b>	<b>3.4</b>	<b>.....</b>	<b>2.1</b>	<b>1.1</b>	<b>1.1</b>	<b>1.8</b>	<b>1.6</b>	<b>2.6</b>
<b>1904</b>												
1.....	4.0	3.7	6.7	5.8	5.4	3.5	4.1	1.5	-0.1	-0.8	-0.8	-0.8
2.....	4.0	3.5	5.0	6.2	4.7	3.9	4.0	1.4	-0.2	-0.8	-0.8	-0.8
3.....	7.3	3.5	5.6	5.8	4.6	3.8	4.7	1.3	-0.3	-0.8	-0.8	-0.8
4.....	5.8	3.4	10.0	5.2	4.3	3.6	4.0	1.2	-0.4	-0.8	-0.8	-0.8
5.....	5.0	3.2	7.0	4.8	4.0	3.4	3.7	1.1	-0.4	-0.8	-0.8	-0.8
6.....	4.8	3.1	6.0	4.4	3.8	3.8	3.5	1.0	-0.5	-0.8	-0.8	-0.8
7.....	4.6	3.1	7.0	3.9	3.7	3.9	3.2	1.0	-0.5	-0.8	-0.8	-0.8
8.....	4.0	10.0	13.9	3.9	3.6	3.9	3.3	0.9	-0.5	-0.8	-0.8	-0.8
9.....	4.0	6.2	8.0	3.8	3.5	3.8	3.5	0.8	-0.6	-0.8	-0.8	-0.8
10.....	3.6	4.6	6.0	3.7	3.4	3.6	3.3	0.7	-0.7	-0.8	-0.8	-0.8
11.....	3.5	4.2	5.2	3.6	3.3	3.5	3.2	0.6	-0.8	-0.8	-0.8	-0.8
12.....	3.4	4.0	5.7	3.4	3.2	3.4	3.1	0.5	-0.8	-0.8	-0.8	-0.8
13.....	3.3	3.8	5.6	3.3	3.1	3.3	3.0	0.4	-0.8	-0.8	-0.8	-0.8
14.....	3.3	3.7	5.8	3.2	3.1	3.2	3.0	0.3	-0.8	-0.8	-0.8	-0.8
15.....	3.2	3.6	5.8	3.0	3.2	3.1	3.0	0.2	-0.8	-0.8	-0.8	-0.8
16.....	3.7	3.5	5.4	3.3	3.6	3.0	2.9	0.1	-0.8	-0.8	-0.8	-0.8
17.....	3.9	3.4	5.0	3.9	3.6	2.9	2.8	0.1	-0.8	-0.8	-0.8	-0.8
18.....	6.2	3.3	4.8	3.9	3.5	2.8	2.8	-0.2	-0.8	-0.8	-0.8	-0.8
19.....	5.7	3.3	4.6	3.8	3.7	2.7	2.7	-0.4	-0.8	-0.8	-0.8	-0.8
20.....	5.0	3.1	4.0	3.6	3.9	2.6	2.6	-0.4	-0.8	-0.8	-0.8	-0.5
21.....	4.8	3.0	4.0	3.4	4.7	2.5	2.5	-0.5	-0.8	-0.8	-0.8	-0.5
22.....	4.9	3.8	4.0	3.4	6.0	2.8	2.4	-0.6	-0.8	-0.8	-0.8	-0.5
23.....	11.5	7.0	9.0	3.3	4.6	3.6	2.3	-0.6	-0.8	-0.8	-0.8	-0.4
24.....	9.4	10.0	13.0	3.2	4.3	3.6	2.2	-0.6	-0.8	-0.8	-0.8	-0.4
25.....	7.0	6.4	5.5	3.2	4.2	3.5	2.1	-0.6	-0.8	-0.8	-0.8	0.0
26.....	6.0	4.2	5.9	3.8	3.8	3.4	2.0	-0.6	-0.8	-0.8	-0.8	0.6
27.....	5.0	4.0	6.4	10.8	3.6	3.4	1.9	-0.6	-0.8	-0.8	-0.8	2.6
28.....	4.6	4.6	5.0	16.0	3.4	3.4	1.8	-0.5	-0.8	-0.8	-0.8	4.0
29.....	4.4	6.0	4.5	11.4	3.3	3.9	1.8	-0.4	-0.8	-0.8	-0.8	4.2
30.....	4.4	.....	4.2	8.4	3.3	3.8	1.7	-0.3	-0.8	-0.8	-0.8	4.0
31.....	4.0	.....	4.0	.....	3.0	.....	1.6	-0.4	.....	-0.8	.....	3.8
<b>Means.</b>	<b>5.0</b>	<b>4.5</b>	<b>6.2</b>	<b>5.0</b>	<b>3.9</b>	<b>3.4</b>	<b>2.9</b>	<b>0.2</b>	<b>-0.7</b>	<b>-0.8</b>	<b>-0.8</b>	<b>0.1</b>

## DESCRIPTION OF RIVER GAGES, ETC.

485

## OHIO RIVER SYSTEM—NEW RIVER, RADFORD, VA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	Frozen.	-0.3	0.2	0.7	0.3	0.5	1.2	0.4	-0.2	0.7	1.0	1.0
2.....	Frozen.	-0.3	6.0	0.5	0.2	0.5	0.8	0.4	-0.2	0.5	0.8	1.0
3.....		-0.4	3.3	0.3	0.1	0.9	0.5	0.4	-0.3	0.5	1.0	0.9
4.....		-0.4	2.2	-0.3	1.2	1.0	0.5	0.4	-0.3	0.4	2.0	1.5
5.....		-0.3	1.7	-0.2	0.5	1.0	0.5	0.4	-0.2	0.2	1.6	4.0
6.....		0.0	1.5	-0.2	1.0	0.8	0.7	0.4	-0.3	0.2	1.0	3.0
7.....		0.0	1.0	-0.3	0.7	0.7	0.5	0.3	-0.3	0.2	0.7	2.2
8.....		0.0	0.7	-0.3	0.5	1.0	0.4	0.2	-0.3	0.2	0.5	2.0
9.....		0.2	0.3	-0.3	1.0	0.8	0.4	0.1	-0.3	0.1	0.4	1.8
10.....	0.3	0.2	0.3	-0.2	0.3	0.8	0.8	0.1	-0.3	0.1	0.4	1.6
11.....	0.1	0.2	0.3	-0.3	0.5	0.7	0.7	0.1	-0.2	0.0	0.4	1.4
12.....	0.3	0.3	0.1	-0.2	0.4	0.7	0.7	0.0	-0.2	0.0	0.4	1.2
13.....	0.5	2.0	1.2	0.1	0.2	1.0	0.5	0.0	-0.2	0.0	0.5	1.2
14.....	0.5	4.5	1.0	0.0	0.0	1.0	0.5	0.0	-0.1	1.0	0.4	1.0
15.....	0.4	2.5	1.0	-0.1	-0.2	1.0	0.5	0.0	0.3	0.7	0.3	0.8
16.....	0.3	1.8	1.3	-0.1	0.3	1.2	0.5	-0.2	4.0	0.4	0.2	0.8
17.....	0.2	1.5	2.0	-0.2	0.2	1.5	0.4	-0.5	3.3	0.3	0.2	0.8
18.....	0.1	1.0	1.0	-0.2	0.0	1.2	0.4	-0.8	1.3	0.2	0.2	0.8
19.....	0.0	0.5	0.5	4.0	0.8	2.0	0.4	-1.0	0.7	0.1	0.3	0.7
20.....	1.5	0.5	3.3	1.5	1.4	1.0	0.4	-1.2	0.4	0.2	0.4	0.7
21.....	1.3	0.4	4.5	2.0	1.0	1.1	0.4	-1.4	0.4	0.1	0.5	0.7
22.....	1.0	1.5	3.0	2.7	0.7	1.0	0.6	-1.5	0.4	0.1	0.6	0.6
23.....	0.7	3.0	2.2	2.7	0.5	1.2	0.6	-1.4	0.4	0.4	0.8	0.6
24.....	0.5	2.0	2.0	2.3	0.9	1.0	0.8	-1.0	0.4	22.0	0.8	0.6
25.....	0.3	1.2	2.0	2.0	2.0	1.0	0.9	-0.5	0.4	4.5	0.8	0.5
26.....	0.1	0.5	1.9	1.4	1.9	2.0	1.2	-0.2	0.3	2.0	1.0	0.5
27.....	-0.2	0.0	2.5	1.0	1.7	1.9	1.4	0.1	0.3	1.3	4.3	0.4
28.....	-0.2	0.0	2.4	0.5	1.4	2.0	1.2	0.1	0.1	1.6	2.8	0.4
29.....	-0.3		2.4	0.5	1.0	2.0	1.0	0.1	0.1	2.0	2.0	0.4
30.....	-0.3		1.7	0.4	0.9	1.6	0.9	-0.2	0.4	1.6	1.8	0.5
31.....	-0.3		1.0		0.6		0.5	-0.2		1.0		0.6
<b>Means.</b>	<b>0.3</b>	<b>0.8</b>	<b>1.8</b>	<b>0.7</b>	<b>0.8</b>	<b>1.1</b>	<b>0.7</b>	<b>-0.2</b>	<b>0.3</b>	<b>1.4</b>	<b>0.9</b>	<b>1.1</b>

<b>1901</b>												
1.....	0.9	0.9	0.6	1.3	1.6	2.0	3.0	1.0	3.0	1.3	0.4	0.4
2.....	0.8	0.7	0.5	1.9	1.6	2.0	2.9	1.1	2.8	1.5	0.3	0.4
3.....	0.8	0.7	0.4	9.4	1.6	2.0	2.8	1.1	2.4	1.6	0.3	2.2
4.....	0.8	0.7	0.2	6.6	1.5	1.9	2.5	1.0	2.0	1.5	0.4	2.3
5.....	0.7	1.0	0.1	3.0	1.4	1.8	2.2	1.0	2.0	1.3	0.4	2.2
6.....	0.7	0.9	0.0	2.0	1.3	1.6	2.0	3.6	1.8	1.3	0.5	2.0
7.....	0.7	0.8	0.0	2.0	1.3	1.8	2.4	12.0	1.8	1.3	0.4	1.9
8.....	0.8	0.9	0.1	2.0	1.0	2.2	2.2	4.4	1.6	0.9	0.4	1.8
9.....	0.7	1.0	-0.2	1.8	1.1	2.4	2.1	3.0	1.6	0.8	0.3	1.5
10.....	0.7	0.9	0.2	1.6	1.8	2.2	1.8	2.5	1.4	0.8	0.3	1.5
11.....	1.5	0.9	0.8	1.4	2.7	2.0	1.8	2.0	1.4	0.7	0.3	1.4
12.....	2.0	1.2	1.4	1.2	2.6	1.6	1.6	2.0	1.5	0.7	0.2	1.2
13.....	1.8	1.1	1.2	1.2	2.5	1.4	1.5	5.6	1.4	2.0	0.2	1.0
14.....	1.6	1.0	1.2	2.0	1.9	2.0	3.8	8.4	1.4	2.5	0.2	3.5
15.....	1.5	1.0	1.0	2.7	1.4	5.9	3.5	5.7	1.3	2.0	0.5	14.0
16.....	1.2	0.9	0.8	1.8	1.2	6.0	3.0	5.7	1.3	1.8	0.4	5.0
17.....	1.1	0.8	0.7	1.4	1.2	6.8	2.2	4.3	3.0	1.5	0.3	4.0
18.....	1.0	0.7	0.5	1.2	1.0	4.8	1.8	4.2	3.6	1.2	0.3	3.8
19.....	1.0	0.7	0.5	1.0	1.6	3.1	3.0	4.5	2.6	1.0	0.2	3.8
20.....	1.0	0.7	0.5	a 13.0	2.0	2.8	2.0	3.4	1.8	1.0	0.2	3.5
21.....	1.0	0.6	0.5	8.0	1.7	2.4	1.9	3.2	1.8	0.9	0.1	3.0
22.....	0.9	0.6	0.8	5.0	b 23.0	3.4	1.8	3.0	1.2	0.9	0.1	2.5
23.....	1.0	0.7	0.7	3.0	17.6	8.4	1.5	4.2	1.2	0.8	0.3	2.5
24.....	0.9	0.6	0.7	2.0	6.7	4.3	1.4	5.0	1.2	0.8	0.2	2.0
25.....	0.8	0.6	0.6	1.8	4.0	3.8	1.2	4.0	1.0	0.8	0.2	1.5
26.....	0.8	0.6	0.9	1.8	4.4	3.2	1.0	3.1	1.0	0.7	1.1	1.5
27.....	1.1	0.5	5.0	1.8	5.6	3.2	1.0	3.0	1.0	0.6	0.8	2.0
28.....	1.0	0.6	4.0	1.8	6.0	3.4	0.9	4.0	1.2	0.5	0.8	1.8
29.....	0.8		3.2	1.7	4.6	2.8	0.9	3.6	1.4	0.4	0.8	10.2
30.....	0.7		2.2	1.7	3.9	2.8	0.9	2.8	1.4	0.4	0.6	17.0
31.....	1.0		1.8		3.0		0.9	3.2		0.4		8.0
<b>Means.</b>	<b>1.0</b>	<b>0.8</b>	<b>1.0</b>	<b>2.9</b>	<b>3.6</b>	<b>3.1</b>	<b>2.0</b>	<b>3.7</b>	<b>1.7</b>	<b>1.1</b>	<b>0.4</b>	<b>3.5</b>

\* 25.0 during day.

b 23.4 at 3.30 p. m.

c 23.0 at 11 p. m.

## DESCRIPTION OF RIVER GAGES, ETC.

OHIO RIVER SYSTEM—NEW RIVER, RADFORD, VA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	6.0	2.0	12.0	2.0	0.8	0.5	2.0	-0.5	-1.3	0.0	-0.8	1.0
2.....	3.0	4.3	7.8	1.8	0.8	0.4	1.8	-0.8	-1.2	0.0	-0.8	1.0
3.....	3.0	4.0	4.0	1.4	0.8	0.4	1.0	-0.8	-1.2	-0.5	-0.8	3.0
4.....	2.8	3.0	3.4	2.2	0.7	0.3	1.0	-0.8	-1.0	-0.6	-0.9	3.6
5.....	3.0	2.0	2.6	1.8	0.7	0.3	1.0	-0.7	-1.0	0.0	-1.0	3.6
6.....	2.9	1.5	2.2	1.6	0.7	0.2	1.0	-0.6	-1.1	3.6	-0.9	3.0
7.....	2.9	1.5	2.0	1.5	0.8	0.2	0.9	-0.7	-1.2	1.0	-0.8	3.6
8.....	1.8	1.2	2.0	2.0	0.8	0.5	0.9	-0.7	-1.2	1.3	-0.8	3.6
9.....	1.8	1.5	2.8	1.9	0.7	0.6	1.3	-0.6	-1.3	1.0	-1.0	3.0
10.....	1.5	1.6	2.6	2.0	0.6	0.5	0.8	-0.8	-0.8	1.0	-1.3	2.6
11.....	1.4	1.5	2.0	1.8	0.6	0.5	0.8	-0.9	-0.7	0.6	-1.3	1.0
12.....	1.3	1.5	1.6	1.8	0.6	0.4	0.7	-1.0	-0.8	0.9	-1.3	1.0
13.....	1.3	1.2	1.6	1.8	0.6	0.4	0.7	-1.0	-0.8	0.9	-1.5	1.2
14.....	1.4	1.0	1.6	1.6	0.8	0.4	0.7	-1.0	-0.8	0.9	-1.6	1.3
15.....	1.2	1.0	1.4	1.8	0.8	0.5	0.6	-1.1	-0.8	0.5	-1.7	1.5
16.....	1.0	1.0	1.8	1.6	0.7	1.2	0.3	-1.2	-0.8	0.5	-1.6	0.8
17.....	1.0	1.0	2.8	1.6	0.7	3.2	0.1	-1.1	-1.0	0.5	-1.7	2.2
18.....	0.9	0.9	2.0	1.5	0.6	2.0	0.0	-1.1	-0.8	0.3	-1.5	2.0
19.....	0.9	0.9	1.8	1.3	0.6	1.3	0.0	-1.1	-0.8	0.3	-1.2	0.8
20.....	0.8	1.0	1.6	1.5	0.5	1.0	0.0	-1.0	-0.8	0.3	-1.0	0.6
21.....	1.1	1.2	1.4	1.8	0.4	1.0	0.0	-1.0	0.4	0.3	-1.0	1.0
22.....	1.0	1.8	1.4	1.5	0.4	0.8	0.0	-0.9	0.0	0.0	-1.0	2.0
23.....	0.9	2.2	1.0	1.3	0.4	0.5	-0.2	-0.8	0.1	-0.2	-1.0	1.4
24.....	0.8	2.0	1.0	1.3	0.4	0.5	0.0	-1.0	0.1	-0.5	-1.0	1.0
25.....	0.8	4.3	0.8	1.0	0.3	0.5	0.0	-1.2	-0.3	-0.5	-1.1	1.0
26.....	2.4	4.0	0.8	1.0	0.3	0.4	-0.1	-1.2	-0.5	-0.5	1.3	0.2
27.....	2.4	3.0	1.0	0.9	0.8	0.4	-0.2	-1.1	-0.3	-0.7	3.4	0.2
28.....	2.0	5.6	1.0	0.9	0.5	0.6	-0.2	-1.1	-0.2	-0.7	3.8	0.0
29.....	1.8		2.6	0.9	0.5	4.0	-0.2	-1.1	-0.2	-0.7	3.0	0.0
30.....	1.6		3.6	0.8	0.5	2.0	-0.2	-1.2	-0.2	-0.7	1.4	0.0
31.....	2.2		2.8		0.5		-0.3	-1.3		-0.7		0.0
<b>Means.</b>	<b>1.8</b>	<b>2.1</b>	<b>2.5</b>	<b>1.5</b>	<b>0.6</b>	<b>0.8</b>	<b>0.4</b>	<b>-1.0</b>	<b>-0.7</b>	<b>0.2</b>	<b>-0.5</b>	<b>1.5</b>
<b>1903</b>												
1.....	-0.2	1.0	6.0	2.0	1.8	0.0	1.0	0.0	0.0	-0.2	-0.4	0.0
2.....	0.0	1.0	3.0	1.8	1.5	0.0	0.8	3.0	1.8	-0.2	-0.4	0.0
3.....	3.0	0.8	2.4	1.8	1.4	-0.1	0.7	2.6	1.2	-0.2	-0.5	0.0
4.....	3.0	2.8	2.0	2.5	1.4	-0.1	0.4	2.0	0.6	-0.2	-0.3	0.0
5.....	2.6	2.0	1.4	2.0	1.2	-0.1	0.0	1.4	0.4	-0.2	-0.2	0.1
6.....	2.0	1.8	1.0	2.0	1.2	-0.1	1.0	1.0	0.2	-0.3	0.0	0.2
7.....	1.4	1.0	1.0	2.6	1.2	0.0	0.6	1.0	0.2	-0.2	0.0	0.2
8.....	1.0	2.0	1.5	3.0	1.1	0.0	0.4	0.5	0.0	0.0	0.0	0.2
9.....	2.0	1.8	1.8	2.0	1.1	-0.1	0.0	0.5	0.0	0.0	0.0	0.1
10.....	1.8	1.0	2.0	1.6	1.0	0.8	0.0	0.8	0.4	0.0	-0.1	0.2
11.....	1.4	1.5	2.0	1.6	1.0	1.5	0.0	0.5	0.8	0.0	-0.2	0.1
12.....	1.8	1.4	2.6	1.6	1.0	1.2	0.0	0.2	0.4	0.0	-0.2	0.1
13.....	1.6	1.4	2.8	1.6	0.9	0.6	1.0	0.2	0.0	0.0	-0.2	0.1
14.....	1.4	1.4	2.0	2.0	0.9	0.6	2.0	0.8	0.0	0.0	-0.3	0.2
15.....	1.4	1.6	2.0	2.2	0.9	0.4	1.6	1.1	0.0	0.0	-0.3	0.1
16.....	1.0	2.3	1.9	2.0	0.8	0.4	1.0	1.4	0.0	0.0	-0.3	0.0
17.....	1.0	6.3	1.8	1.6	0.8	0.2	0.6	1.4	3.0	0.0	-0.3	0.0
18.....	0.8	5.2	1.8	1.4	0.8	0.2	0.0	1.8	2.0	0.0	0.0	-0.1
19.....	0.8	4.0	1.4	1.4	0.7	0.2	0.0	0.6	1.0	0.0	0.0	-0.2
20.....	0.6	2.8	1.0	1.4	0.7	0.1	0.0	0.8	0.8	0.0	0.0	-0.2
21.....	0.8	2.0	1.0	1.2	0.8	0.0	0.0	0.6	0.4	0.0	-0.1	-0.2
22.....	1.0	2.0	1.8	1.2	0.7	0.0	-0.2	0.4	0.0	0.0	-0.1	2.0
23.....	2.0	2.0	3.3	1.8	0.7	0.8	-0.1	0.2	0.0	0.0	-0.1	1.8
24.....	1.6	1.6	5.5	1.8	0.6	1.0	-0.2	0.2	0.0	0.0	-0.1	1.5
25.....	1.0	1.4	3.8	2.0	0.6	0.4	0.0	0.0	-0.1	-0.2	-0.2	1.3
26.....	1.0	1.0	2.0	2.2	0.4	0.4	0.0	0.0	0.0	-0.2	-0.2	1.2
27.....	0.6	1.0	1.6	3.0	0.0	0.6	0.0	0.0	0.0	-0.2	-0.2	0.8
28.....	1.8	2.3	1.4	2.0	0.0	3.0	0.0	0.0	0.1	-0.3	-0.3	0.5
29.....	2.0		1.4	1.9	0.0	4.2	-0.2	0.0	0.0	-0.3	-0.3	0.1
30.....	1.8		1.8	1.8	0.0	1.8	-0.2	0.0	-0.2	-0.3	-0.3	0.1
31.....	1.2		5.0		0.0		-0.1	0.0		-0.3		0.0
<b>Means.</b>	<b>1.4</b>	<b>2.0</b>	<b>2.3</b>	<b>1.9</b>	<b>0.8</b>	<b>0.6</b>	<b>0.3</b>	<b>0.7</b>	<b>0.4</b>	<b>-0.1</b>	<b>-0.2</b>	<b>0.3</b>

## OHIO RIVER SYSTEM—NEW RIVER, RADFORD, VA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	0.3	1.0	2.2	1.5	2.0	3.0	5.6	1.5	0.3	-1.4	-1.9	-1.8
2.....	0.3	0.8	1.6	1.3	2.0	5.6	1.6	1.7	0.3	-1.4	-1.9	-1.7
3.....	0.3	1.0	1.6	1.2	1.6	3.2	1.3	1.2	0.5	-1.4	-2.0	-1.7
4.....	0.2	0.8	1.5	1.2	1.3	2.0	1.3	1.4	0.5	-1.5	-2.0	-1.7
5.....	0.2	0.8	1.4	1.0	1.1	1.2	2.3	1.3	0.5	-1.4	-2.0	-1.6
6.....	0.1	1.0	1.2	1.0	1.0	1.0	1.6	1.0	0.4	-1.4	-2.0	-1.6
7.....	0.1	1.0	1.4	1.2	1.0	1.0	1.5	1.0	0.4	-1.5	-2.0	-0.2
8.....	0.0	1.4	5.0	1.2	0.8	2.0	1.4	1.0	0.2	-1.6	-1.8	-0.4
9.....	0.0	3.2	4.6	1.4	0.9	2.4	1.4	1.0	0.2	-1.6	-1.8	-0.4
10.....	0.0	2.6	3.0	2.0	0.9	1.8	1.6	0.8	0.1	-1.6	-1.8	-0.4
11.....	0.0	2.0	1.8	2.2	3.5	3.3	2.0	1.2	0.1	-1.7	-1.9	0.0
12.....	0.0	1.8	2.0	2.3	2.8	2.0	1.7	2.0	0.1	-1.7	-1.9	0.0
13.....	0.6	1.4	2.0	2.3	1.5	1.4	1.7	1.8	0.1	-1.7	-1.9	-0.2
14.....	0.2	1.2	2.0	2.0	1.2	1.2	1.3	1.8	0.1	-1.8	-1.8	-0.2
15.....	0.2	1.0	1.8	2.0	2.3	1.0	1.3	1.3	-0.2	-1.7	-1.6	-1.0
16.....	0.3	1.0	1.8	1.7	2.0	1.0	1.2	1.0	-0.2	-1.7	-1.5	-1.7
17.....	0.2	1.0	1.3	1.5	1.0	1.5	1.2	1.0	-0.3	-1.7	-1.5	-1.7
18.....	0.3	1.0	1.2	1.5	1.5	1.8	1.0	0.8	-0.5	-1.7	-1.5	-1.7
19.....	0.1	1.2	1.2	1.3	5.0	2.0	0.8	0.8	-0.5	-1.7	-1.5	-1.8
20.....	0.1	1.4	1.1	1.0	3.8	2.5	0.8	0.8	-0.5	-1.7	-1.5	-1.8
21.....	0.3	1.8	1.1	1.0	3.0	2.8	0.7	0.9	-0.5	-1.7	-1.5	-1.8
22.....	0.3	2.5	1.0	1.0	2.8	2.5	1.0	0.9	-0.8	-1.7	-1.6	-1.8
23.....	3.1	3.3	1.0	0.8	2.5	2.2	1.2	0.8	-0.9	-1.7	-1.6	-1.0
24.....	3.3	2.6	1.0	0.8	2.0	2.0	1.2	0.7	-0.9	-1.7	-1.6	-0.6
25.....	3.5	1.8	1.8	0.8	1.8	1.5	1.2	0.7	-1.0	-1.8	-1.6	-0.3
26.....	2.3	1.8	3.0	0.7	1.5	1.2	1.4	0.5	-1.0	-1.9	-1.6	-0.2
27.....	2.0	1.8	1.8	1.1	1.5	1.2	1.2	0.5	-1.0	-1.9	-1.7	-0.2
28.....	1.8	2.0	1.5	1.5	1.3	1.2	1.2	0.5	-1.3	-1.9	-1.7	-0.2
29.....	2.0	2.4	1.5	3.8	1.2	1.7	1.5	0.5	-1.3	-1.9	-1.7	-0.1
30.....	1.4	.....	1.6	2.0	1.2	4.0	1.2	0.3	-1.4	-1.9	-1.7	-0.1
31.....	1.0	.....	1.5	.....	1.2	.....	1.4	0.3	.....	-1.9	.....	-0.6
Means.	0.8	1.6	1.8	1.5	1.8	2.0	1.5	1.0	-0.3	-1.7	-1.7	-0.9

## OHIO RIVER SYSTEM—NEW RIVER, HINTON, W. VA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	1.1	1.1	3.5	3.8	2.4	2.2	2.4	1.9	1.0	1.2	1.8	3.4
2.....	1.1	1.0	9.5	3.6	2.3	2.0	2.6	1.7	1.0	1.1	1.7	3.2
3.....	1.1	1.4	7.0	3.4	2.3	1.9	2.2	1.5	1.2	1.2	1.9	2.6
4.....	1.4	1.5	5.5	3.2	2.3	2.0	2.0	1.3	1.1	1.2	2.7	3.1
5.....	1.6	1.7	4.3	3.0	2.3	2.1	2.0	1.3	1.0	1.2	3.0	7.8
6.....	1.7	1.7	4.0	2.9	2.3	2.0	2.1	1.2	1.0	1.3	3.1	6.2
7.....	1.5	2.2	3.8	2.8	2.2	1.9	1.9	1.1	1.0	1.3	2.6	4.8
8.....	1.6	2.4	4.6	2.7	2.3	1.8	1.8	1.1	1.0	1.4	2.3	4.0
9.....	1.6	3.0	4.5	2.6	2.2	1.7	1.7	1.1	1.0	1.3	2.1	3.6
10.....	1.6	3.6	4.3	2.5	2.2	1.6	1.6	1.1	0.9	1.3	2.0	3.4
11.....	1.8	3.1	4.0	2.5	2.6	1.6	1.5	1.1	0.8	1.3	1.9	3.1
12.....	2.0	2.9	4.0	2.4	2.3	1.7	1.4	1.1	0.8	1.3	1.9	2.9
13.....	3.1	3.8	3.9	2.4	2.2	1.9	1.4	1.0	0.8	1.2	1.9	2.7
14.....	3.8	8.0	3.6	2.4	2.1	1.8	1.3	1.0	0.8	1.2	1.9	2.6
15.....	3.1	6.0	3.3	2.4	2.0	2.0	1.3	1.0	0.8	1.3	1.8	2.5
16.....	2.6	4.5	3.3	2.3	1.9	5.2	1.3	1.0	2.8	1.6	1.7	2.4
17.....	2.3	3.8	3.2	2.1	1.9	4.3	1.3	1.0	4.1	1.4	1.6	2.3
18.....	2.1	3.2	3.1	2.1	1.8	5.5	1.3	1.1	3.0	1.3	1.6	2.1
19.....	2.0	2.8	3.4	2.3	1.8	4.7	1.2	1.0	2.1	1.2	1.5	2.0
20.....	3.1	2.2	6.6	4.7	2.0	3.8	1.2	1.0	1.7	1.2	1.5	2.0
21.....	5.5	2.2	9.5	4.0	2.2	3.2	1.3	1.1	1.4	1.2	1.6	2.0
22.....	4.5	3.9	7.0	4.2	2.3	2.7	1.3	1.3	1.3	1.1	1.8	2.0
23.....	3.5	6.2	5.5	4.8	2.1	2.4	1.5	1.2	1.2	1.2	1.8	2.0
24.....	3.0	5.3	4.7	4.3	2.0	2.3	1.8	1.3	1.6	5.5	2.7	2.0
25.....	2.6	4.2	4.1	3.7	2.2	2.4	1.7	1.3	1.6	7.0	3.1	2.0
26.....	2.4	3.7	4.5	3.3	3.3	2.5	2.0	1.5	1.5	4.3	10.5	2.1
27.....	2.1	3.0	4.8	3.1	3.0	3.3	2.6	1.4	1.4	3.2	11.5	2.0
28.....	1.9	2.8	5.1	2.9	2.6	2.8	3.4	1.3	1.3	2.6	6.3	1.9
29.....	1.8	.....	4.8	2.8	2.4	3.0	3.0	1.1	1.2	2.3	4.5	1.9
30.....	1.5	.....	4.3	2.7	2.5	2.8	2.3	1.1	1.2	2.1	3.7	1.9
31.....	1.3	.....	4.0	.....	2.6	.....	1.9	1.0	.....	2.0	.....	2.0
Means.	2.3	3.3	4.8	3.1	2.3	2.6	1.8	1.2	1.4	1.9	2.9	2.8

## OHIO RIVER SYSTEM—NEW RIVER, HINTON, W. VA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	2.0	2.2	2.0	3.2	3.6	5.0	4.5	2.2	4.8	3.9	1.9	1.7
2.....	2.1	2.0	1.9	3.2	3.4	4.5	4.6	2.3	4.8	3.0	1.8	1.7
3.....	2.1	1.9	1.9	6.7	3.1	4.1	4.0	2.2	4.3	2.7	1.8	1.7
4.....	2.0	2.6	1.9	10.3	3.0	3.9	4.3	2.1	3.8	2.7	1.8	2.0
5.....	1.9	3.1	2.2	7.1	2.9	3.6	4.2	2.0	3.4	2.6	1.8	3.2
6.....	1.9	2.9	3.5	5.7	2.8	3.4	3.9	2.4	3.3	2.5	1.8	2.8
7.....	1.9	2.7	2.8	5.9	2.7	4.5	3.7	12.5	3.1	2.5	1.8	2.4
8.....	1.8	2.6	2.5	5.3	3.0	4.8	3.9	6.5	3.0	2.4	1.8	2.1
9.....	1.8	2.6	2.3	4.5	3.2	4.2	3.6	4.3	2.9	2.4	1.8	2.0
10.....	1.8	2.6	2.3	4.0	3.6	3.7	3.2	3.6	2.8	2.3	1.8	2.0
11.....	2.0	3.5	2.9	3.7	4.0	3.4	2.9	3.4	2.7	2.3	1.8	2.1
12.....	6.2	3.4	5.5	3.4	4.2	3.3	2.7	3.3	2.7	2.3	1.8	3.0
13.....	7.3	3.0	4.5	3.2	3.7	3.2	2.6	5.0	3.0	2.3	1.8	2.7
14.....	5.5	2.8	3.6	3.7	3.4	3.0	2.5	5.9	2.9	2.5	1.8	2.4
15.....	4.3	2.5	3.2	6.2	3.1	3.1	6.6	7.0	2.8	3.3	1.8	8.0
16.....	3.7	2.4	2.9	6.0	2.9	6.3	4.4	6.4	2.6	2.7	1.7	12.8
17.....	3.2	2.3	2.7	4.9	2.8	7.7	3.8	5.8	2.8	2.5	1.7	7.0
18.....	3.0	2.3	2.4	4.3	2.7	8.0	3.8	6.5	2.8	2.3	1.8	4.7
19.....	2.7	2.3	2.3	3.9	2.8	6.2	4.3	6.0	3.3	2.2	1.7	3.8
20.....	2.5	2.3	2.2	7.4	3.2	5.0	4.0	5.0	3.1	2.2	1.7	3.5
21.....	2.1	2.3	2.2	a15.8	3.2	4.5	3.4	4.7	2.8	2.2	1.7	3.3
22.....	2.2	2.3	2.4	9.0	9.0	4.3	3.0	4.2	2.7	2.1	1.7	3.0
23.....	2.4	2.1	3.0	7.0	b15.6	8.6	2.8	4.3	2.5	2.1	1.7	2.5
24.....	2.4	1.9	2.7	6.1	8.6	10.0	2.6	7.5	2.4	2.1	1.8	2.6
25.....	2.7	1.6	2.5	5.8	6.5	7.0	2.5	4.8	2.3	2.1	2.5	2.7
26.....	2.7	1.7	2.5	5.6	5.8	5.4	2.3	4.5	2.3	2.0	2.2	2.9
27.....	2.6	1.8	3.5	5.0	7.7	4.9	2.2	4.3	2.2	1.9	2.0	6.0
28.....	2.4	1.9	5.6	4.7	10.8	4.8	2.2	4.3	2.2	1.9	1.9	5.2
29.....	2.3		4.4	4.2	8.5	4.3	2.2	8.8	2.3	1.9	1.8	9.8
30.....	2.2		3.6	3.9	7.0	4.9	2.2	5.5	4.6	1.9	1.7	17.4
31.....	2.2		3.2		5.9		2.1	4.5		1.9		10.0
<b>Means.</b>	<b>2.8</b>	<b>2.4</b>	<b>2.9</b>	<b>5.6</b>	<b>4.9</b>	<b>5.0</b>	<b>3.4</b>	<b>4.9</b>	<b>3.0</b>	<b>2.4</b>	<b>1.8</b>	<b>4.4</b>
<b>1902</b>												
1.....	6.9	7.0	17.0	5.0	2.4	1.9	3.1	1.4	1.0	1.3	1.5	2.1
2.....	5.6	6.3	9.5	4.5	2.4	1.9	2.9	1.5	1.0	1.2	1.5	3.0
3.....	4.8	6.5	7.3	4.0	2.4	1.9	2.7	1.5	1.0	1.3	1.3	3.0
4.....	4.4	5.5	5.8	3.8	2.3	1.8	2.4	1.6	1.0	1.3	1.3	3.6
5.....	4.0	4.5	5.0	4.1	2.3	1.8	2.2	1.5	1.0	1.4	1.2	3.4
6.....	3.8	4.3	4.7	4.3	2.2	1.7	2.0	1.5	1.3	1.4	1.1	3.1
7.....	3.5	4.2	4.4	4.2	2.2	1.7	1.9	1.6	1.4	2.5	1.2	3.0
8.....	3.3	4.1	4.5	4.3	2.2	1.6	1.8	1.5	1.4	1.9	1.3	2.7
9.....	3.3	3.8	5.1	4.7	2.5	1.7	1.8	1.7	1.2	1.6	1.4	2.4
10.....	3.2	3.6	5.5	4.7	2.4	1.9	2.1	1.6	1.1	1.4	1.4	2.1
11.....	3.1	3.4	5.4	4.7	2.3	1.9	2.1	1.5	1.2	1.3	1.4	2.0
12.....	3.0	3.2	5.0	4.5	2.1	1.8	1.8	1.4	1.8	1.3	1.2	2.0
13.....	2.9	3.1	5.3	4.1	2.0	1.7	1.7	1.3	1.5	1.3	1.2	2.2
14.....	2.7	3.1	6.5	3.8	2.0	1.7	1.7	1.3	1.4	1.7	1.2	4.4
15.....	2.6	3.1	5.0	3.5	2.0	1.8	1.6	1.2	1.3	1.8	1.2	4.1
16.....	3.0	3.1	4.5	3.4	2.1	2.3	1.7	1.2	1.1	1.7	1.2	3.4
17.....	2.9	3.1	6.5	3.3	2.2	2.6	1.8	1.2	1.1	1.7	1.1	3.6
18.....	2.8	3.0	6.3	3.2	2.3	3.7	1.6	1.2	1.1	1.4	1.2	4.7
19.....	2.8	2.9	5.2	3.0	2.1	2.9	1.5	1.4	1.1	1.4	1.3	3.8
20.....	2.7	2.8	4.5	3.0	2.1	2.4	1.4	1.4	1.1	1.3	2.0	3.0
21.....	2.8	2.8	4.0	3.0	2.4	2.2	1.4	1.3	1.1	1.2	1.8	2.8
22.....	2.8	2.9	3.8	3.0	2.2	2.1	1.3	1.3	1.1	1.2	1.6	2.6
23.....	2.8	3.2	3.7	2.9	2.1	1.9	1.3	1.4	1.1	1.2	1.5	2.8
24.....	2.8	3.8	3.5	2.8	2.1	1.9	1.4	1.4	1.2	1.2	1.4	2.9
25.....	2.8	4.7	3.2	2.7	2.3	1.8	1.3	1.3	1.2	1.1	1.5	2.8
26.....	3.0	10.7	3.1	2.6	2.5	1.9	1.3	1.3	1.1	1.1	1.6	2.4
27.....	4.6	7.7	3.0	2.6	2.8	1.9	1.3	1.2	1.1	1.1	2.7	2.1
28.....	7.0	9.5	2.9	2.5	2.7	2.4	1.3	1.1	1.1	1.2	3.0	1.8
29.....	5.5		3.8	2.4	2.5	4.0	1.2	1.2	1.5	1.2	2.4	1.5
30.....	5.8		8.0	2.4	2.2	4.0	1.3	1.1	1.4	1.6	2.0	1.4
31.....	8.5		6.3		2.0		1.3	1.1		1.6		1.9
<b>Means.</b>	<b>3.9</b>	<b>4.5</b>	<b>5.4</b>	<b>3.6</b>	<b>2.3</b>	<b>2.2</b>	<b>1.7</b>	<b>1.4</b>	<b>1.2</b>	<b>1.4</b>	<b>1.6</b>	<b>2.8</b>

a 18.0 at 4 a. m.

b 18.0 at 6 p. m.

## OHIO RIVER SYSTEM—NEW RIVER, HINTON, W. VA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	2.1	4.3	10.0	6.6	3.7	2.7	3.3	1.9	1.5	1.2	1.2	1.2
2.....	2.2	3.7	7.3	5.5	3.5	2.8	2.7	3.0	1.8	1.2	1.2	1.2
3.....	5.2	3.6	5.4	4.8	3.3	2.5	2.3	2.8	1.8	1.2	1.2	1.2
4.....	8.0	4.3	4.5	4.4	3.1	2.3	2.1	2.6	1.6	1.2	1.2	1.2
5.....	5.9	7.7	4.0	5.1	3.0	2.2	2.0	2.3	1.5	1.1	1.2	1.3
6.....	4.7	6.0	3.6	4.9	3.0	2.1	2.0	1.9	1.4	1.1	1.3	1.3
7.....	3.9	4.6	3.4	4.3	2.9	2.1	3.3	1.9	1.4	1.1	1.6	1.3
8.....	3.5	3.8	3.2	4.1	2.8	3.5	2.8	1.8	1.3	1.2	1.5	1.3
9.....	3.1	3.6	4.0	5.4	2.7	3.6	2.4	1.8	1.3	1.3	1.4	1.3
10.....	2.5	3.5	5.2	5.7	2.6	3.0	2.1	1.7	1.4	1.4	1.3	1.3
11.....	2.2	3.4	4.7	5.0	2.5	2.7	2.0	1.5	1.6	1.9	1.3	1.3
12.....	2.2	4.5	5.4	4.4	2.4	3.2	1.9	1.4	1.5	1.7	1.2	1.4
13.....	2.1	5.5	5.5	4.0	2.4	2.9	2.0	1.5	1.4	1.5	1.2	1.4
14.....	2.0	4.8	4.8	3.9	2.4	2.7	3.5	1.6	1.4	1.4	1.3	1.2
15.....	2.0	4.2	4.3	5.4	2.3	2.4	3.9	1.6	1.3	1.3	1.3	1.2
16.....	2.3	5.2	3.9	5.5	2.3	2.1	3.0	2.0	1.3	1.2	1.3	1.2
17.....	2.6	10.5	3.6	4.9	2.3	2.0	2.5	1.9	1.2	1.2	1.2	1.2
18.....	2.5	9.5	3.4	4.3	2.3	2.0	2.2	1.7	3.5	1.2	1.2	1.2
19.....	2.2	6.3	3.1	4.0	2.2	2.0	2.1	1.8	2.4	1.4	1.3	1.2
20.....	2.1	4.8	3.0	3.7	2.1	1.9	2.0	1.6	1.9	1.6	1.5	1.2
21.....	2.3	4.3	2.9	3.9	2.1	1.8	1.9	1.7	1.8	1.5	1.5	1.3
22.....	2.4	3.9	3.2	3.9	2.0	1.8	1.8	1.8	1.5	1.4	1.5	1.4
23.....	2.2	3.7	2.5	3.8	2.0	1.8	1.6	1.7	1.4	1.3	1.4	1.4
24.....	3.0	3.4	14.7	3.8	2.0	1.9	1.5	1.5	1.3	1.2	1.3	1.5
25.....	2.7	3.2	8.7	3.7	2.0	1.9	1.5	1.4	1.3	1.2	1.3	1.7
26.....	2.5	3.1	6.0	3.8	1.9	1.9	1.5	1.3	1.3	1.2	1.3	1.6
27.....	2.5	3.0	5.1	6.8	1.9	1.9	1.4	1.3	1.3	1.2	1.3	1.5
28.....	2.7	4.0	4.4	5.6	1.9	2.5	1.4	1.2	1.2	1.2	1.2	1.5
29.....	4.0	.....	4.0	4.8	2.1	4.4	1.4	1.2	1.2	1.2	1.2	1.5
30.....	5.3	.....	3.8	4.1	2.5	4.0	1.5	1.3	1.2	1.2	1.2	1.5
31.....	5.5	.....	4.7	.....	2.2	.....	1.6	1.4	.....	1.2	.....	1.5
<b>Means.</b>	<b>3.2</b>	<b>4.7</b>	<b>5.1</b>	<b>4.7</b>	<b>2.5</b>	<b>2.5</b>	<b>2.2</b>	<b>1.7</b>	<b>1.5</b>	<b>1.3</b>	<b>1.3</b>	<b>1.3</b>
<b>1904</b>												
1.....	1.5	1.3	3.4	2.5	3.2	2.3	3.8	1.8	1.2	0.9	0.8	1.0
2.....	1.5	1.3	4.4	2.7	2.9	3.2	3.2	1.7	1.2	0.9	0.8	1.0
3.....	1.5	1.3	3.8	2.8	2.6	4.4	2.4	1.8	1.5	0.9	0.8	1.0
4.....	1.5	1.3	3.5	2.7	2.4	4.5	2.0	2.0	1.6	0.9	0.8	1.0
5.....	1.5	1.2	3.3	2.6	2.3	3.5	2.0	2.0	1.7	0.8	0.8	1.0
6.....	1.5	1.2	3.0	2.4	2.8	2.9	2.1	2.2	1.5	0.8	0.8	1.3
7.....	1.4	1.4	2.8	2.2	2.7	2.6	2.0	2.3	1.5	0.8	1.0	1.6
8.....	1.4	2.2	4.2	2.0	2.5	2.4	2.0	2.0	1.4	0.8	1.3	1.9
9.....	1.4	3.3	6.0	1.9	2.3	2.3	1.9	1.7	1.3	0.8	1.2	1.8
10.....	1.4	3.2	4.4	1.9	2.4	2.1	1.8	2.0	1.2	0.8	1.1	1.7
11.....	1.4	2.6	3.4	2.0	3.1	2.2	2.2	1.8	1.2	0.8	1.0	1.7
12.....	1.6	2.2	3.2	2.1	2.7	2.1	2.2	2.2	1.2	0.8	0.9	1.6
13.....	1.6	2.0	3.0	1.9	2.4	2.6	2.0	2.3	1.2	0.8	0.9	1.5
14.....	1.6	1.8	2.8	2.0	2.3	2.4	1.8	2.0	1.1	0.8	1.0	1.5
15.....	1.5	1.6	2.8	2.0	2.3	2.0	1.7	1.9	1.1	0.8	1.1	1.3
16.....	1.5	1.5	2.8	2.0	2.5	1.8	1.5	1.7	1.1	0.8	1.3	1.2
17.....	1.6	1.4	2.6	2.2	2.5	1.9	1.4	1.6	1.1	0.8	1.3	1.1
18.....	1.6	1.4	2.5	2.0	2.5	2.0	1.4	1.8	1.1	0.8	1.2	1.0
19.....	1.6	1.4	2.3	2.0	5.2	1.9	1.4	1.7	1.1	0.8	1.2	1.0
20.....	1.6	1.5	2.3	1.9	5.9	2.1	1.4	1.6	1.1	0.8	1.2	1.0
21.....	1.5	1.5	2.3	1.8	4.5	2.3	1.4	1.5	1.0	0.8	1.1	0.9
22.....	1.7	2.4	2.3	1.8	3.7	2.1	1.3	1.4	1.0	0.8	1.1	0.8
23.....	2.3	5.0	2.5	1.8	3.4	2.1	1.3	1.6	1.0	0.8	1.1	0.8
24.....	4.8	4.2	3.4	1.8	3.0	1.9	1.3	1.4	1.0	0.8	1.1	1.0
25.....	3.6	3.6	3.5	1.8	3.1	1.7	1.3	1.4	1.0	0.8	1.1	1.1
26.....	2.8	3.0	3.5	1.9	2.9	1.6	1.6	1.4	1.0	0.8	1.1	1.3
27.....	2.4	2.6	3.3	2.5	2.8	1.6	1.6	1.4	0.9	0.8	1.1	1.7
28.....	2.1	2.3	3.1	4.8	2.8	2.2	1.7	1.3	0.9	0.8	1.0	2.0
29.....	1.8	2.8	3.0	4.6	2.5	2.4	1.8	1.2	0.9	0.8	1.0	2.1
30.....	1.5	.....	2.8	3.8	2.2	4.0	2.0	1.2	1.0	0.8	1.0	1.9
31.....	1.4	.....	2.7	.....	2.0	.....	2.1	1.2	.....	0.8	.....	1.7
<b>Means.</b>	<b>1.8</b>	<b>2.2</b>	<b>3.2</b>	<b>2.3</b>	<b>2.9</b>	<b>2.4</b>	<b>1.9</b>	<b>1.7</b>	<b>1.2</b>	<b>0.8</b>	<b>1.0</b>	<b>1.3</b>

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—GREAT KANAWHA RIVER, CHARLESTON, W. VA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	3.1	2.5	6.3	7.2	4.7	7.2	7.4	3.5	6.8	6.2	6.9	6.5
2.....	3.0	2.3	15.5	6.9	4.6	6.8	6.2	6.0	6.6	6.2	6.8	6.0
3.....	1.9	2.0	19.3	6.6	6.8	6.8	5.8	6.3	6.7	6.4	6.7	5.6
4.....	2.0	2.5	12.2	6.5	6.9	6.9	4.5	6.2	6.7	6.4	6.7	5.5
5.....	2.1	3.3	9.1	6.3	6.8	6.9	4.4	6.0	6.7	6.4	7.5	13.4
6.....	2.4	4.0	7.7	6.1	6.9	6.0	4.2	6.8	6.6	6.4	7.5	17.2
7.....	2.5	5.5	8.0	5.8	6.9	6.2	4.1	6.6	6.5	6.4	7.4	11.2
8.....	2.6	6.0	9.4	5.7	7.0	6.1	4.0	6.6	6.5	6.7	6.9	8.5
9.....	2.7	7.7	8.7	5.6	7.0	6.8	3.8	6.6	6.5	6.5	6.8	8.3
10.....	3.0	8.3	8.0	5.6	7.1	7.0	3.6	6.5	6.4	6.5	6.8	7.2
11.....	3.7	7.4	7.3	5.5	7.5	6.9	6.8	6.7	6.2	6.4	6.8	6.9
12.....	4.0	6.7	7.2	5.1	7.7	6.9	6.8	6.6	6.0	6.5	6.8	6.1
13.....	6.2	6.3	7.1	4.9	7.0	7.0	6.9	6.5	6.0	6.6	6.8	5.8
14.....	7.1	13.3	6.8	4.8	6.9	7.0	6.8	6.7	6.0	6.6	6.8	5.3
15.....	6.4	15.8	6.0	4.7	6.9	7.0	6.8	6.5	6.0	6.5	6.8	5.2
16.....	6.0	10.7	5.9	4.6	6.9	7.4	6.8	6.5	6.0	6.4	6.8	4.8
17.....	5.7	8.0	5.9	4.3	6.8	10.0	6.8	6.5	7.0	6.8	6.7	4.5
18.....	5.4	7.0	5.8	4.2	6.8	9.9	6.8	6.6	7.7	6.7	6.7	6.0
19.....	6.2	6.0	6.7	7.0	7.2	9.5	6.8	6.6	6.8	6.7	6.7	5.9
20.....	6.3	5.5	13.4	7.7	7.1	8.9	6.8	6.8	6.3	6.5	6.7	6.9
21.....	11.0	5.0	20.7	7.4	6.8	6.6	6.7	6.8	6.8	6.4	6.8	6.9
22.....	11.5	6.0	18.5	7.0	6.0	5.6	6.6	6.8	6.7	6.4	7.0	7.0
23.....	8.3	9.8	12.3	7.1	5.4	5.1	6.5	6.8	6.4	6.4	7.3	7.0
24.....	7.1	12.1	9.1	7.4	4.8	4.9	6.8	6.8	6.5	6.4	7.0	6.9
25.....	6.0	9.9	8.1	6.8	6.6	4.1	7.2	6.8	6.5	17.8	7.8	6.9
26.....	5.5	8.1	8.2	6.2	7.0	4.9	6.8	6.8	6.4	8.8	12.9	6.9
27.....	5.0	7.0	8.1	5.9	7.9	7.0	8.4	6.8	6.4	6.0	31.0	6.9
28.....	4.7	6.1	8.4	5.5	7.6	7.4	6.5	6.9	6.2	5.0	21.0	6.9
29.....	4.2		8.5	5.3	7.0	7.2	6.1	6.8	6.2	6.2	10.3	6.9
30.....	3.2		7.8	4.9	7.2	7.6	5.8	6.7	6.2	6.1	7.6	6.9
31.....	2.8		7.3		7.1		4.8	6.7		6.9		7.9
<b>Means.</b>	<b>4.9</b>	<b>7.0</b>	<b>9.5</b>	<b>6.0</b>	<b>6.7</b>	<b>6.9</b>	<b>6.1</b>	<b>6.5</b>	<b>6.5</b>	<b>6.8</b>	<b>8.5</b>	<b>7.2</b>
<b>1901</b>												
1.....	7.4	5.3	5.6	6.3	7.0	10.4	8.3	6.9	6.5	6.5	6.8	6.8
2.....	7.7	5.2	5.9	6.1	6.5	9.0	7.7	6.8	7.0	5.6	6.8	6.8
3.....	7.2	5.2	6.5	7.0	6.1	7.6	7.6	6.9	6.8	4.9	6.9	6.9
4.....	6.9	6.1	6.7	25.8	5.9	7.0	6.3	6.9	6.2	4.2	6.9	7.0
5.....	6.9	8.4	6.7	23.0	5.5	6.5	7.2	6.9	5.8	4.0	6.9	7.9
6.....	6.9	7.5	12.0	14.4	5.3	6.2	7.7	6.8	5.3	6.2	6.9	7.8
7.....	6.9	6.6	8.5	13.4	5.2	6.5	7.9	6.7	5.1	6.9	6.9	7.0
8.....	6.9	6.0	6.8	13.7	5.2	11.9	7.0	15.2	4.9	6.9	6.9	7.0
9.....	6.9	5.8	6.1	11.0	8.0	9.5	7.2	8.0	4.7	6.9	7.0	7.0
10.....	6.9	5.9	6.0	9.0	6.3	7.7	6.6	6.1	4.6	6.9	6.9	7.0
11.....	6.9	6.9	6.7	7.8	7.4	6.7	5.8	5.2	6.5	6.9	6.8	7.5
12.....	8.0	6.8	9.0	7.2	7.8	6.1	5.3	5.0	6.8	6.9	6.9	7.5
13.....	17.0	6.5	10.3	6.9	8.0	5.8	5.0	5.9	7.0	6.9	6.9	7.5
14.....	13.6	5.8	8.0	6.9	7.2	5.5	6.9	7.4	7.3	6.9	6.9	7.2
15.....	9.5	5.5	7.0	9.4	6.8	5.6	6.8	9.5	7.0	7.0	6.9	18.0
16.....	7.4	5.0	6.3	13.2	6.1	7.6	8.7	9.2	7.0	7.6	7.0	32.3
17.....	6.3	5.0	5.9	11.0	5.7	12.3	6.7	9.0	7.5	6.9	6.9	21.0
18.....	6.0	4.9	5.4	8.8	5.4	17.0	6.3	8.6	7.7	6.0	6.9	10.5
19.....	5.6	4.8	5.3	8.3	5.4	15.0	6.5	8.3	7.9	7.0	5.5	7.4
20.....	5.0	4.7	5.1	15.0	5.3	10.8	6.6	7.0	7.8	7.0	5.0	6.0
21.....	4.8	4.7	5.4	a 31.3	5.6	8.3	6.2	7.0	7.2	6.9	5.0	5.5
22.....	4.6	4.7	6.5	32.6	6.9	7.7	5.5	6.5	7.0	6.9	6.3	5.4
23.....	4.8	4.4	6.3	22.2	b 36.6	17.6	5.0	6.3	6.7	6.9	6.7	4.9
24.....	5.6	4.3	6.2	19.2	29.5	30.9	4.7	6.1	6.7	6.9	6.9	4.7
25.....	5.7	3.8	6.0	19.0	16.0	21.0	4.5	8.0	7.3	6.9	7.0	4.6
26.....	6.1	3.6	5.7	20.5	11.0	13.3	5.9	6.7	7.0	6.9	7.0	5.8
27.....	6.0	3.6	7.3	16.0	16.2	9.7	6.4	6.3	6.9	6.9	7.0	10.0
28.....	5.9	6.2	9.9	12.0	23.8	8.6	6.9	6.2	6.9	6.9	7.0	15.3
29.....	4.6		9.8	9.1	24.0	8.5	6.9	6.1	6.9	6.9	6.9	14.7
30.....	5.3		7.7	7.6	20.5	8.5	6.9	11.0	6.9	6.9	6.9	c 35.9
31.....	5.3		6.8		14.6		6.9	7.4		6.8		33.9
<b>Means.</b>	<b>6.9</b>	<b>5.5</b>	<b>7.0</b>	<b>13.8</b>	<b>10.7</b>	<b>10.3</b>	<b>6.6</b>	<b>7.4</b>	<b>6.6</b>	<b>6.6</b>	<b>6.7</b>	<b>10.9</b>

a 36.4 at 6 p. m.

b 38.5 at 2 p. m.

c 38.5 at 5 p. m.



## OHIO RIVER SYSTEM—GREAT KANAWHA RIVER, CHARLESTON, W. VA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	19.0	17.7	33.0	10.7	6.7	4.5	7.6	6.6	6.3	6.8	6.9	5.0
2.....	11.5	14.5	32.3	9.0	6.3	4.0	6.6	6.9	6.3	6.7	6.9	6.7
3.....	9.0	14.6	20.0	7.6	6.3	3.8	6.1	6.8	5.7	7.0	6.9	6.7
4.....	8.0	12.2	13.2	7.1	6.9	5.8	5.9	6.7	5.5	6.9	6.7	6.5
5.....	6.9	9.0	10.6	8.0	6.9	6.9	4.9	6.7	5.0	6.9	6.7	7.0
6.....	6.2	7.5	9.0	8.8	6.9	6.9	6.8	6.6	5.5	6.9	6.7	6.7
7.....	6.1	6.8	8.0	8.7	6.9	6.8	6.8	6.6	6.1	6.8	6.7	6.0
8.....	6.0	6.6	8.6	9.8	6.9	6.8	6.8	6.6	6.8	7.2	6.7	6.1
9.....	5.9	6.3	13.6	10.8	6.8	6.8	6.9	6.8	6.9	5.2	6.7	6.0
10.....	5.8	5.4	15.9	12.6	7.7	6.8	7.1	6.5	6.9	5.5	6.7	5.5
11.....	5.6	5.2	13.3	14.0	6.8	7.0	6.9	6.9	6.8	5.5	6.9	5.0
12.....	5.5	4.7	11.0	12.8	6.8	6.9	6.9	6.8	6.5	5.5	6.8	4.8
13.....	5.3	4.7	11.0	10.3	6.7	6.7	6.8	6.6	6.6	5.5	6.8	9.8
14.....	4.7	4.6	14.5	9.3	6.7	7.0	6.8	6.6	6.6	5.9	6.7	11.5
15.....	4.3	4.5	13.4	7.8	6.7	6.9	6.8	6.6	6.6	6.1	6.7	10.2
16.....	3.9	4.5	9.5	7.0	7.0	6.9	6.8	6.6	6.6	6.8	6.6	9.1
17.....	4.7	4.3	11.0	6.3	7.4	6.8	6.9	6.6	6.5	6.8	6.6	10.8
18.....	4.5	4.3	14.6	6.2	7.0	6.9	6.9	6.6	6.5	6.8	6.7	10.0
19.....	4.5	4.3	11.6	6.2	6.9	7.8	6.8	6.6	6.5	6.8	6.7	8.8
20.....	4.5	4.0	9.0	6.0	6.9	7.3	6.9	6.7	6.4	6.8	6.7	7.1
21.....	4.5	4.0	7.5	5.9	6.9	6.9	6.8	6.8	6.5	6.8	7.3	6.2
22.....	4.7	4.4	7.0	5.9	7.0	7.2	6.6	6.8	6.5	6.8	7.2	5.7
23.....	4.8	4.8	6.7	5.9	7.0	7.0	6.9	6.7	6.5	6.8	7.0	5.6
24.....	4.7	5.8	6.2	5.8	6.9	7.0	6.8	6.7	6.7	6.8	6.9	5.6
25.....	4.6	7.6	6.0	5.6	7.6	6.9	6.8	6.7	6.7	6.7	7.0	5.5
26.....	5.0	19.8	5.8	5.3	10.0	7.3	6.8	6.6	6.9	6.7	8.0	5.5
27.....	9.5	21.6	5.7	5.1	8.5	8.2	6.8	6.6	6.8	6.7	6.8	5.2
28.....	20.7	18.8	5.9	4.9	7.9	6.0	6.6	6.6	6.8	6.6	6.0	4.8
29.....	15.7	.....	6.5	4.7	6.9	6.2	6.6	6.3	6.7	6.7	6.0	4.0
30.....	17.5	.....	11.7	4.7	6.0	6.6	6.6	6.2	7.0	6.7	5.4	6.2
31.....	21.6	.....	14.3	.....	5.3	.....	6.6	6.1	.....	6.8	.....	6.2
<b>Means.</b>	<b>7.9</b>	<b>8.3</b>	<b>11.8</b>	<b>7.8</b>	<b>7.0</b>	<b>6.6</b>	<b>6.7</b>	<b>6.6</b>	<b>6.5</b>	<b>6.5</b>	<b>6.7</b>	<b>6.8</b>
<b>1903</b>												
1.....	5.7	10.0	24.2	10.2	7.1	6.4	6.6	7.2	6.5	6.6	6.5	6.5
2.....	5.2	9.4	22.0	9.4	6.6	7.4	5.8	7.0	6.8	6.6	6.5	6.5
3.....	6.9	8.9	14.3	8.0	6.0	7.4	4.8	7.3	7.2	6.7	6.5	6.4
4.....	17.7	9.9	9.8	7.4	5.8	7.2	4.6	7.4	7.0	6.7	6.5	6.4
5.....	15.4	16.4	7.8	8.4	5.7	7.4	4.0	7.1	6.9	6.6	6.8	6.7
6.....	10.8	15.2	6.9	8.7	5.6	7.4	7.0	6.9	6.9	6.6	6.8	6.7
7.....	8.4	10.2	6.4	8.0	5.4	7.2	7.0	6.9	6.7	6.5	6.8	6.8
8.....	7.0	7.5	7.0	8.0	5.1	8.2	7.5	7.1	6.7	6.6	6.8	6.8
9.....	6.6	6.9	8.0	11.0	5.1	7.3	7.6	7.0	6.7	6.7	7.0	6.8
10.....	5.8	6.5	9.9	12.8	4.8	6.7	7.0	6.9	6.6	6.7	7.0	6.8
11.....	5.5	6.3	10.4	10.5	4.7	5.6	6.9	6.9	6.7	6.9	7.0	2.2
12.....	6.7	6.5	10.4	8.9	4.4	5.3	6.9	6.8	6.7	6.8	6.9	0.5
13.....	6.7	8.6	11.3	8.0	5.5	5.5	6.9	6.8	6.7	6.8	6.9	0.5
14.....	5.0	9.2	10.0	11.1	4.5	5.3	7.0	6.7	6.8	6.7	6.9	0.5
15.....	5.8	8.0	8.5	11.3	6.1	4.6	8.0	6.9	6.8	6.7	6.9	0.6
16.....	5.8	13.4	7.3	13.5	4.3	4.6	7.9	6.8	6.7	6.7	6.9	0.5
17.....	5.0	19.8	6.9	14.0	4.2	7.2	7.0	6.9	6.6	6.7	6.9	0.5
18.....	5.0	23.2	6.2	11.2	4.4	7.0	7.0	6.8	6.6	6.7	6.9	0.5
19.....	5.0	16.3	6.0	8.9	4.2	7.4	6.9	6.7	8.0	6.7	6.9	0.1
20.....	4.8	10.0	5.7	7.0	4.1	7.0	6.9	7.0	6.7	6.7	7.0	1.0
21.....	4.8	8.0	6.0	7.0	7.3	6.6	6.8	7.2	6.7	7.0	7.2	0.9
22.....	5.0	7.4	7.2	7.2	7.4	6.4	6.9	7.0	6.6	6.9	7.2	1.4
23.....	5.5	7.0	10.6	7.5	7.4	7.0	6.9	7.0	6.8	6.8	7.2	1.4
24.....	6.2	6.9	a 30.0	7.0	7.2	7.0	6.9	7.0	6.8	6.8	7.0	2.4
25.....	5.9	6.7	27.0	6.8	7.4	7.0	6.9	7.0	6.8	6.7	7.0	2.1
26.....	5.6	6.6	15.0	7.9	7.3	6.8	6.9	6.7	6.8	6.6	6.8	3.4
27.....	5.3	6.5	10.0	9.0	7.3	7.0	6.8	6.7	6.8	6.6	6.8	3.5
28.....	5.4	12.0	8.0	11.8	7.2	7.0	6.8	6.7	6.8	6.6	6.8	3.8
29.....	6.0	.....	7.2	9.5	7.4	7.2	6.7	6.7	6.6	6.6	6.7	3.5
30.....	9.9	.....	6.8	7.9	7.4	7.1	6.6	6.6	6.6	6.5	6.6	3.0
31.....	11.0	.....	6.4	.....	7.3	.....	6.8	6.5	.....	6.5	.....	2.8
<b>Means.</b>	<b>6.9</b>	<b>10.1</b>	<b>10.7</b>	<b>9.3</b>	<b>5.9</b>	<b>7.0</b>	<b>6.7</b>	<b>6.9</b>	<b>6.8</b>	<b>6.7</b>	<b>6.9</b>	<b>3.3</b>

a 33 ft. at 6 p. m.

## OHIO RIVER SYSTEM—GREAT KANAWHA RIVER, CHARLESTON, W. VA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	2.6	2.9	6.5	5.6	8.4	4.8	6.7	7.1	6.6	6.2	6.8	7.2
2.....	2.6	2.1	8.4	5.8	7.3	7.0	6.5	7.0	6.8	6.2	6.8	7.2
3.....	2.9	2.8	8.5	6.4	6.6	6.2	5.8	6.8	6.8	6.2	6.8	7.2
4.....	3.0	2.5	8.2	6.1	6.1	7.0	5.1	7.1	6.8	6.2	6.8	7.2
5.....	4.2	2.5	8.3	5.7	5.7	6.3	4.6	7.1	6.8	6.2	6.8	7.2
6.....	3.9	2.6	7.2	5.3	5.5	5.8	6.0	7.1	7.0	6.2	6.8	7.2
7.....	3.9	2.7	6.5	5.0	5.4	5.8	5.6	7.2	7.0	6.2	6.8	7.2
8.....	3.5	2.8	8.2	4.8	5.2	5.2	6.4	7.2	6.8	6.2	6.8	7.2
9.....	3.3	8.0	11.4	4.3	5.0	4.9	7.6	7.2	6.8	6.2	6.8	7.3
10.....	2.7	7.5	10.1	4.5	4.4	6.5	7.4	6.8	6.8	6.2	6.8	7.4
11.....	2.6	6.4	7.7	4.8	6.5	6.8	7.0	7.0	6.6	6.2	6.9	7.4
12.....	2.4	6.4	6.7	5.0	6.8	7.0	7.3	7.0	6.6	6.2	6.9	7.4
13.....	2.5	5.5	6.3	4.8	6.7	7.2	7.3	7.0	6.6	6.0	6.8	7.4
14.....	2.7	4.0	5.9	4.8	7.7	6.9	7.3	7.0	6.5	6.0	6.8	7.3
15.....	3.0	4.1	5.7	4.8	6.9	7.3	7.0	6.8	6.5	6.0	6.9	7.0
16.....	2.8	4.1	5.7	4.7	7.2	6.5	6.9	6.7	6.5	6.0	7.0	7.0
17.....	3.0	3.8	5.7	4.9	7.2	7.6	7.0	6.7	6.5	6.2	7.0	7.0
18.....	3.7	3.8	5.4	5.1	7.3	7.4	7.1	6.7	6.5	6.8	7.0	7.0
19.....	4.0	3.6	5.3	5.0	7.2	7.0	6.6	6.6	6.5	6.8	7.2	7.0
20.....	3.8	3.6	5.2	4.9	9.2	6.9	6.8	6.7	6.5	6.8	7.2	7.0
21.....	3.7	3.6	5.2	6.2	9.6	7.2	6.8	6.8	6.6	6.8	7.2	7.0
22.....	3.7	5.1	5.3	7.0	9.7	6.7	6.8	6.8	6.6	6.8	7.2	7.0
23.....	5.7	7.7	6.3	6.9	8.1	7.0	6.9	6.8	6.6	6.8	7.2	7.0
24.....	9.8	9.6	9.0	6.8	6.8	6.5	6.6	6.8	6.6	6.8	7.2	7.0
25.....	8.6	8.0	8.9	7.0	6.2	7.2	7.0	6.9	6.6	6.8	7.2	7.0
26.....	6.8	7.1	7.5	7.6	6.5	7.0	7.0	6.9	6.6	6.8	7.2	7.8
27.....	5.7	6.2	7.6	10.5	6.2	6.9	7.4	6.6	6.6	6.8	7.2	7.0
28.....	4.9	6.0	7.1	13.3	6.0	7.0	7.4	6.6	6.4	6.8	7.2	7.8
29.....	4.2	5.8	6.5	12.7	5.5	7.4	7.2	6.6	6.4	6.8	7.2	8.0
30.....	3.6		6.1	10.2	5.0	7.8	7.0	6.6	6.4	6.8	7.2	7.8
31.....	3.3		5.6		4.8		7.5	6.6		6.8		7.0
Means.	4.0	4.9	7.0	6.4	6.7	6.7	6.8	6.9	6.6	6.4	7.0	7.2

## OHIO RIVER SYSTEM—SCIOTO RIVER, COLUMBUS, OHIO.

1900	Frozen.	Frozen.										
1.....			4.0	4.1	2.6	2.0	2.0	1.9	2.3	2.0	2.0	3.6
2.....			5.6	4.5	2.4	2.0	2.0	1.9	2.3	2.0	2.0	3.6
3.....			4.9	4.6	2.1	2.5	2.0	1.9	2.3	1.9	2.0	3.6
4.....			4.6	4.2	2.2	2.7	2.0	1.9	2.3	2.0	2.0	3.6
5.....			5.0	4.1	2.0	2.7	2.0	1.9	2.2	1.9	2.0	3.6
6.....			6.2	3.9	2.0	2.9	1.9	1.9	2.2	1.9	2.0	3.4
7.....			10.0	3.9	2.0	2.9	1.9	1.9	2.2	2.0	2.0	3.4
8.....		3.6	9.6	3.6	2.0	2.9	1.9	1.9	2.2	2.0	2.0	3.4
9.....		6.0	8.3	3.6	2.0	2.9	1.9	1.9	2.2	2.0	2.0	3.4
10.....		6.0	7.4	3.0	2.0	2.9	1.9	1.9	2.2	2.0	2.0	3.4
11.....	1.6	5.4	6.2	3.9	2.0	2.9	1.9	1.9	2.0	2.0	2.0	3.2
12.....	3.8	4.0	6.0	3.9	2.0	2.9	1.9	1.9	2.0	2.0	2.0	3.2
13.....	3.6	5.0	5.4	3.6	2.0	2.9	1.9	1.9	2.2	2.0	2.0	3.2
14.....	4.0	5.5	4.2	3.0	1.9	2.9	1.9	1.9	2.2	2.0	2.0	Frozen.
15.....	3.9	4.9	3.9	3.0	1.9	2.9	1.9	1.9	2.0	2.0	2.0	
16.....	4.0	4.8	3.0	3.0	1.9	2.9	1.9	2.1	2.2	2.0	2.0	
17.....	5.0	Frozen.	3.6	2.9	1.9	2.9	1.9	1.9	2.0	2.0	2.0	3.0
18.....	4.6		Frozen.	3.1	1.9	2.8	1.9	1.9	2.0	2.0	2.0	3.0
19.....	4.2		3.3	5.0	1.9	2.8	1.9	1.9	2.0	2.0	2.0	2.9
20.....	5.0		3.5	4.9	1.9	2.8	1.9	2.9	2.0	2.0	2.1	2.9
21.....	8.0		3.6	3.9	1.9	2.0	1.9	2.9	2.0	2.0	2.2	2.9
22.....	6.2	3.6	3.4	5.7	1.9	2.0	1.9	2.0	2.0	2.0	2.0	2.9
23.....	5.7	5.4	3.3	5.9	1.9	2.0	1.9	1.9	2.0	2.2	2.0	2.9
24.....	5.0	5.6	3.1	5.4	1.8	2.7	1.9	1.8	2.0	2.2	2.0	3.0
25.....	4.2	5.4	3.1	4.0	2.0	2.0	2.1	2.2	1.9	2.2	2.0	3.0
26.....	4.0	Frozen.	3.2	3.9	2.0	2.0	2.0	3.2	2.0	2.0	3.9	3.0
27.....	3.6		3.1	3.6	2.0	2.0	2.0	2.4	2.0	2.0	4.0	3.0
28.....	3.4		3.7	2.9	2.0	2.0	1.9	2.4	2.0	2.0	3.9	3.0
29.....	Frozen.		3.0	2.9	2.0	2.0	1.9	2.4	2.0	2.0	3.8	3.0
30.....			3.1	2.8	2.0	2.0	1.9	2.4	2.0	2.0	3.7	3.0
31.....			3.2		2.0		2.0	2.3		2.0		3.0
Means.	4.4		4.7	3.9	2.0	2.5	1.9	2.1	2.1	2.0	2.3	3.2

## OHIO RIVER SYSTEM—SCIOTO RIVER, COLUMBUS, OHIO—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	Frozen.	Frozen.	Frozen.	3.4	2.4	4.2	2.9	2.0	1.9	1.9	1.9	1.9
2.....				2.8	2.2	3.7	2.9	1.9	1.9	1.9	1.9	1.9
3.....				2.8	2.2	3.3	2.8	1.9	1.9	1.9	1.9	1.9
4.....			4.0	2.8	2.2	3.1	2.7	1.9	1.9	1.9	1.9	1.9
5.....			4.5	2.6	2.2	2.9	8.5	1.9	1.9	1.9	1.9	1.9
6.....			Frozen.	2.4	2.2	3.0	5.4	1.9	1.9	2.0	1.9	1.9
7.....				2.4	2.2	2.9	4.0	1.9	1.9	2.0	1.9	1.9
8.....				2.4	2.2	2.7	4.0	1.9	1.9	2.0	1.9	1.9
9.....				2.4	2.2	2.7	3.9	1.9	1.9	2.0	1.9	2.0
10.....				2.2	2.2	2.6	3.5	1.9	1.9	2.0	1.9	2.2
11.....	3.8		9.5	2.2	2.2	2.5	3.4	1.8	1.9	2.0	1.9	2.1
12.....	5.2		7.9	2.1	2.5	2.4	3.4	1.8	1.9	2.0	1.9	2.0
13.....	5.2		6.8	2.0	2.7	2.3	3.4	1.8	1.9	2.0	1.9	2.0
14.....	3.5		6.0	2.0	2.4	2.2	3.2	1.9	1.9	1.9	1.9	2.1
15.....	3.3		5.5	2.0	2.3	2.2	3.0	1.9	1.9	1.9	1.9	2.9
16.....	3.0		5.1	1.9	2.2	4.4	2.8	2.0	1.9	1.9	1.9	Frozen.
17.....	3.0		4.5	1.9	2.0	4.9	2.8	2.0	1.9	1.9	1.9	
18.....	2.8		4.0	1.9	2.0	4.4	2.8	2.0	1.9	1.9	1.9	
19.....	Frozen.		3.9	2.3	2.0	3.5	2.8	1.9	1.9	1.9	1.9	
20.....			3.6	2.5	2.0	3.3	2.8	1.9	1.9	1.9	1.9	
21.....	2.8		3.6	2.6	2.0	3.4	2.7	1.9	1.9	1.9	1.9	
22.....	2.8		3.9	2.9	4.8	3.4	2.7	1.9	1.9	1.9	1.9	
23.....	2.8		3.5	3.1	4.4	4.8	2.7	1.9	1.9	1.9	1.9	
24.....	2.8		3.3	3.6	3.7	3.7	2.6	1.9	1.9	1.9	1.9	
25.....	Frozen.		3.2	3.4	3.3	4.3	2.5	1.9	1.9	1.9	1.9	
26.....			4.7	3.3	3.1	7.5	2.4	1.9	1.9	1.9	1.9	
27.....			5.9	3.2	3.1	4.5	2.3	1.9	1.9	1.9	1.9	
28.....			4.7	2.9	2.9	3.6	2.2	1.9	1.9	1.9	1.9	
29.....			4.0	2.7	4.1	3.4	2.1	1.9	1.9	1.9	1.9	
30.....			4.0	2.5	4.8	2.9	2.0	1.9	1.9	1.9	1.9	
31.....			3.4		4.5		2.0	1.9		1.9		
Means.....			4.8	2.6	2.7	3.5	3.1	1.9	1.9	1.9	1.9	2.0
<b>1902</b>												
1.....	Frozen.	Frozen.	4.0	4.2	2.0	3.0	6.2	3.5	2.2	3.1	2.1	2.8
2.....			4.0	4.0	2.0	2.9	6.0	3.4	2.2	3.0	2.1	2.8
3.....			3.5	3.7	2.0	2.9	5.1	3.0	2.2	3.0	2.1	3.0
4.....			3.0	3.5	2.0	2.9	4.8	3.0	2.2	3.1	2.1	2.5
5.....			3.5	3.5	2.0	2.9	4.6	3.0	2.2	3.5	2.1	2.8
6.....			Frozen.	3.3	2.0	2.9	4.0	3.0	2.2	4.0	2.3	5.0
7.....				3.5	2.0	3.0	4.0	3.0	2.2	4.0	2.2	4.8
8.....			2.5	3.8	2.0	3.0	4.0	3.0	2.1	4.0	2.3	4.3
9.....			2.5	3.6	2.0	3.0	3.8	3.0	2.2	3.6	2.3	4.0
10.....			2.9	4.8	2.0	3.0	3.8	2.8	2.2	3.5	2.3	3.8
11.....			2.8	4.3	2.0	3.0	3.8	2.7	2.2	2.9	2.3	3.8
12.....			2.9	3.7	2.0	3.0	3.8	2.6	2.2	2.9	2.3	3.8
13.....			3.0	3.3	2.0	3.0	3.8	2.6	2.3	3.1	2.3	4.0
14.....			2.8	3.0	2.0	3.2	3.8	2.6	2.2	3.0	2.3	4.0
15.....			2.8	2.8	2.0	3.2	3.8	2.6	2.2	2.9	2.3	4.0
16.....			2.8	2.7	2.0	3.1	3.8	2.5	2.2	2.9	2.3	7.0
17.....			2.8	2.6	2.0	3.0	3.7	2.5	2.2	2.9	2.4	9.0
18.....			2.7	2.5	2.0	3.0	3.7	2.5	2.2	3.0	2.4	6.9
19.....			2.6	2.4	2.0	3.0	3.6	2.4	2.2	3.0	2.4	5.8
20.....			2.5	2.4	2.0	3.2	3.6	2.4	2.3	3.0	2.4	5.5
21.....			2.4	2.4	2.0	3.8	3.9	2.4	2.3	2.6	2.5	5.4
22.....			2.4	2.4	2.0	3.8	3.9	2.4	2.2	2.6	2.4	6.0
23.....			2.3	2.4	2.0	3.8	3.8	2.4	2.2	2.5	2.4	6.0
24.....			2.3	2.4	2.2	3.6	3.8	2.4	2.2	2.3	2.5	5.3
25.....		2.9	2.3	2.4	2.5	3.6	3.8	2.4	2.2	2.3	2.6	5.0
26.....		3.2	2.2	2.3	2.7	3.9	3.7	2.3	2.3	2.3	2.8	4.6
27.....		3.7	2.2	2.3	3.0	3.9	3.6	2.3	2.3	2.3	2.8	4.4
28.....			2.0	2.3	3.0	4.0	3.6	2.3	2.4	2.2	2.9	3.9
29.....			2.5	2.2	3.0	5.2	3.7	2.2	2.6	2.2	2.9	Frozen.
30.....			4.1	2.0	3.0	6.1	3.7	2.2	2.9	2.2	2.9	
31.....			4.3		3.0		3.7	2.2		2.1		
Means.....			2.8	3.0	2.2	3.4	4.0	2.6	2.3	2.9	2.4	4.7

## OHIO RIVER SYSTEM—SCIOTO RIVER, COLUMBUS OHIO.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1903												
1.....	Frozen.	7.2	15.8	3.5	3.2	2.8	3.5	2.6	1.8	1.9	2.2	Frozen.
2.....		6.1	12.0	3.4	3.2	2.8	3.5	2.6	1.8	1.9	2.2	
3.....	4.0	6.0	11.2	3.4	3.2	2.8	3.5	2.6	1.8	1.9	2.2	
4.....	7.9	12.0	8.9	5.0	3.2	2.8	3.5	2.6	1.8	1.9	2.2	
5.....	8.6	11.2	6.6	7.0	3.2	2.0	3.5	2.6	1.8	1.8	2.2	
6.....	5.5	8.1	5.8	6.5	3.2	6.0	3.5	2.5	1.9	1.8	2.2	
7.....	5.2	6.9	5.5	5.5	3.2	8.7	3.5	2.3	2.0	1.8	2.2	
8.....	4.9	5.6	9.0	5.6	3.2	9.0	3.5	2.2	2.1	2.1	2.2	
9.....	4.6	5.1	10.0	5.6	3.2	7.8	3.5	2.2	2.2	2.2	2.3	
10.....	Frozen.	4.8	9.6	4.0	3.2	5.9	3.5	2.2	2.4	2.3	2.3	
11.....		4.8	11.6	4.0	3.2	4.9	3.7	2.2	2.8	2.4	2.5	
12.....		5.1	9.0	4.2	3.2	4.5	3.7	2.1	2.6	2.4	2.6	
13.....		6.0	7.0	5.0	3.2	4.8	3.9	2.1	2.5	2.4	2.6	
14.....		5.5	6.0	6.9	3.1	4.0	3.8	2.0	2.3	2.4	2.6	
15.....		5.7	5.2	8.0	2.9	3.8	3.8	2.0	2.2	2.4	2.6	
16.....		5.9	4.8	6.5	2.9	3.5	3.8	2.0	2.2	2.3	2.7	
17.....	Frozen.		5.0	5.8	2.8	3.5	3.8	2.0	2.2	2.3	2.8	
18.....			4.8	4.5	2.8	3.5	3.8	2.0	2.2	2.3	2.8	
19.....			4.6	4.5	2.4	3.4	3.8	2.0	2.1	2.3	2.7	
20.....			4.6	4.8	2.3	3.4	3.7	2.0	2.1	2.3	2.7	
21.....			5.5	3.8	2.0	3.5	3.5	1.9	2.1	2.3	2.6	4.0
22.....			5.5	3.8	1.6	3.6	3.5	1.9	2.1	2.3	2.7	4.1
23.....			5.0	3.6	1.6	3.8	3.0	1.9	2.1	2.3	2.8	4.1
24.....			4.8	3.3	1.8	3.8	3.0	1.9	2.0	2.3	2.9	4.1
25.....			4.7	3.3	3.0	3.8	2.8	1.9	2.0	2.3	2.9	4.1
26.....			4.6	3.2	3.0	3.7	2.6	1.9	2.0	2.3	2.9	Frozen.
27.....		4.3	3.8	3.4	3.0	3.7	2.6	1.9	2.0	2.3	2.9	
28.....	4.0	13.5	3.6	3.4	2.8	3.6	2.6	1.9	2.0	2.2	Frozen.	
29.....	10.0		3.6	3.3	2.6	3.5	2.4	1.9	2.0	2.2		
30.....	11.0		3.5	3.3	2.7	3.5	2.4	1.9	2.0	2.2		
31.....	8.4		3.5		2.8		2.4	1.9		2.2		
Means.....		6.9	6.6	4.6	2.8	4.2	3.3	2.1	2.1	2.2	2.5	
1904												
1.....	Frozen.	5.4	11.5	12.7	5.6	3.5	2.8	2.5	2.3	2.0	1.8	1.2
2.....		5.4	9.6	18.6	5.4	3.4	2.8	2.5	2.1	2.0	1.7	1.0
3.....	Frozen.		9.0	14.0	4.0	3.7	2.8	2.5	2.0	2.0	1.7	1.0
4.....			15.5	11.0	4.0	3.5	2.8	2.5	1.8	2.0	1.8	1.0
5.....			12.0	7.8	3.7	3.4	2.8	2.5	1.8	2.0	1.7	1.0
6.....			9.0	5.6	3.5	3.0	2.8	2.3	1.8	2.0	1.7	1.0
7.....		5.5	6.0	5.3	3.4	3.0	8.0	2.3	1.8	2.0	1.7	1.0
8.....		11.4	5.5	5.4	3.5	2.8	9.5	2.3	1.8	2.0	1.8	1.0
9.....		8.5	5.5	5.3	3.6	2.7	12.0	2.0	1.8	2.0	1.8	1.0
10.....		8.3	4.5	5.6	3.8	2.7	7.5	2.2	1.6	2.0	1.8	1.0
11.....		8.3	4.5	5.5	3.0	2.5	5.9	2.2	1.7	2.0	1.7	1.0
12.....		7.8	4.0	5.6	2.8	2.4	5.0	2.2	1.7	2.5	1.7	1.0
13.....		7.7	4.0	5.4	2.7	2.8	4.4	2.0	2.0	2.5	1.6	1.0
14.....		7.8	3.5	4.0	2.7	2.7	4.9	2.0	1.7	2.6	1.7	Frozen.
15.....		7.3	4.0	4.5	2.7	2.7	3.7	2.0	2.0	2.5	1.7	
16.....	Frozen.		3.5	4.0	2.7	2.7	3.6	2.0	2.0	2.5	1.7	
17.....			3.0	3.6	2.7	2.6	3.3	2.0	2.0	2.0	1.7	
18.....			3.5	3.6	2.7	2.5	3.1	2.0	2.0	2.0	1.7	
19.....			5.6	3.0	2.7	2.5	3.0	1.9	1.8	2.0	1.6	
20.....			5.5	3.0	2.7	3.0	2.8	1.9	1.7	2.0	1.6	
21.....	3.5		5.5	3.0	2.7	2.8	2.7	1.7	1.6	2.0	1.6	
22.....	17.5		5.5	3.5	2.8	2.8	2.3	1.7	1.6	2.0	1.5	
23.....	17.6	8.6	6.0	3.5	2.8	2.7	2.6	2.0	1.5	2.0	1.6	
24.....	11.5	9.0	7.6	3.3	2.8	3.0	2.5	2.0	1.4	2.0	1.5	1.5
25.....	10.6	6.3	7.0	3.5	2.8	3.1	2.5	2.0	1.4	2.0	1.4	1.4
26.....	5.5	5.5	16.2	5.6	2.8	3.0	2.5	2.6	2.0	2.0	1.5	1.4
27.....	5.5	5.5	16.0	5.6	2.8	2.9	2.5	2.5	2.0	2.0	1.4	3.3
28.....	5.5	5.7	10.6	5.5	2.8	2.7	2.5	2.0	1.8	2.0	1.4	4.0
29.....	5.5	6.0	7.7	5.5	2.8	2.9	2.5	2.4	1.7	2.0	1.4	3.6
30.....	5.4		6.0	5.6	2.7	3.0	2.5	2.0	1.8	2.0	1.4	3.5
31.....	5.4		7.5		2.7		2.4	2.3		2.0		3.5
Means.....		7.2	7.3	5.9	3.2	2.9	3.9	2.2	1.8	2.1	1.6	1.7

## OHIO RIVER SYSTEM—SCIOTO RIVER, COLUMBUS, OHIO—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	Frozen.	Frozen.	Frozen.	3.4	2.4	4.2	2.9	2.0	1.9	1.9	1.9	1.9
2.....				2.8	2.2	3.7	2.9	1.9	1.9	1.9	1.9	1.9
3.....				2.8	2.2	3.3	2.8	1.9	1.9	1.9	1.9	1.9
4.....			4.0	2.8	2.2	3.1	2.7	1.9	1.9	1.9	1.9	1.9
5.....			4.5	2.6	2.2	2.9	8.5	1.9	1.9	1.9	1.9	1.9
6.....			Frozen.	2.4	2.2	3.0	5.4	1.9	1.9	2.0	1.9	1.9
7.....				2.4	2.2	2.9	4.0	1.9	1.9	2.0	1.9	1.9
8.....				2.4	2.2	2.7	4.0	1.9	1.9	2.0	1.9	1.9
9.....				2.4	2.2	2.7	3.9	1.9	1.9	2.0	1.9	2.0
10.....				2.2	2.2	2.6	3.5	1.9	1.9	2.0	1.9	2.2
11.....	3.8		9.5	2.2	2.2	2.5	3.4	1.8	1.9	2.0	1.9	2.1
12.....	5.2		7.9	2.1	2.5	2.4	3.4	1.8	1.9	2.0	1.9	2.0
13.....	5.2		6.8	2.0	2.7	2.3	3.4	1.8	1.9	2.0	1.9	2.0
14.....	3.5		6.0	2.0	2.4	2.2	3.2	1.9	1.9	1.9	1.9	2.1
15.....	3.3		5.5	2.0	2.3	2.2	3.0	1.9	1.9	1.9	1.9	2.9
16.....	3.0		5.1	1.9	2.2	4.4	2.8	2.0	1.9	1.9	1.9	Frozen.
17.....	3.0		4.5	1.9	2.0	4.9	2.8	2.0	1.9	1.9	1.9	
18.....	2.8		4.0	1.9	2.0	4.4	2.8	2.0	1.9	1.9	1.9	
19.....	Frozen.		3.9	2.3	2.0	3.5	2.8	1.9	1.9	1.9	1.9	
20.....			3.6	2.5	2.0	3.3	2.8	1.9	1.9	1.9	1.9	
21.....	2.8		3.6	2.6	2.0	3.4	2.7	1.9	1.9	1.9	1.9	
22.....	2.8		3.9	2.9	4.8	3.4	2.7	1.9	1.9	1.9	1.9	
23.....	2.8		3.5	3.1	4.4	4.8	2.7	1.9	1.9	1.9	1.9	
24.....	2.8		3.3	3.6	3.7	3.7	2.6	1.9	1.9	1.9	1.9	
25.....	Frozen.		3.2	3.4	3.3	4.3	2.5	1.9	1.9	1.9	1.9	
26.....			4.7	3.3	3.1	7.5	2.4	1.9	1.9	1.9	1.9	
27.....			5.9	3.2	3.1	4.5	2.3	1.9	1.9	1.9	1.9	
28.....			4.7	2.9	2.9	3.6	2.2	1.9	1.9	1.9	1.9	
29.....			4.0	2.7	4.1	3.4	2.1	1.9	1.9	1.9	1.9	
30.....			4.0	2.5	4.8	2.9	2.0	1.9	1.9	1.9	1.9	
31.....			3.4		4.5		2.0	1.9		1.9		
Means.....			4.8	2.6	2.7	3.5	3.1	1.9	1.9	1.9	1.9	2.0
<b>1902</b>												
1.....	Frozen.	Frozen.	4.0	4.2	2.0	3.0	6.2	3.5	2.2	3.1	2.1	2.8
2.....			4.0	4.0	2.0	2.9	6.0	3.4	2.2	3.0	2.1	2.8
3.....			3.5	3.7	2.0	2.9	5.1	3.0	2.2	3.0	2.1	3.0
4.....			3.0	3.5	2.0	2.9	4.8	3.0	2.2	3.1	2.1	2.5
5.....			3.5	3.5	2.0	2.9	4.6	3.0	2.2	3.5	2.1	2.8
6.....			Frozen.	3.3	2.0	2.9	4.0	3.0	2.2	4.0	2.3	5.0
7.....				3.5	2.0	3.0	4.0	3.0	2.2	4.0	2.2	4.8
8.....			2.5	3.8	2.0	3.0	4.0	3.0	2.1	4.0	2.3	4.3
9.....			2.5	3.6	2.0	3.0	3.8	3.0	2.2	3.6	2.3	4.0
10.....			2.9	4.8	2.0	3.0	3.8	2.8	2.2	3.5	2.3	3.8
11.....			2.8	4.3	2.0	3.0	3.8	2.7	2.2	2.9	2.3	3.8
12.....			2.9	3.7	2.0	3.0	3.8	2.6	2.2	2.9	2.3	3.8
13.....			3.0	3.3	2.0	3.0	3.8	2.6	2.3	3.1	2.3	4.0
14.....			2.8	3.0	2.0	3.2	3.8	2.6	2.2	3.0	2.3	4.0
15.....			2.8	2.8	2.0	3.2	3.8	2.6	2.2	2.9	2.3	4.0
16.....			2.8	2.7	2.0	3.1	3.8	2.5	2.2	2.9	2.3	7.0
17.....			2.8	2.6	2.0	3.0	3.7	2.5	2.2	2.9	2.4	9.0
18.....			2.7	2.5	2.0	3.0	3.7	2.5	2.2	3.0	2.4	6.9
19.....			2.6	2.4	2.0	3.0	3.6	2.4	2.2	3.0	2.4	5.8
20.....			2.5	2.4	2.0	3.2	3.6	2.4	2.3	3.0	2.4	5.5
21.....			2.4	2.4	2.0	3.8	3.9	2.4	2.3	2.6	2.5	5.4
22.....			2.4	2.4	2.0	3.8	3.9	2.4	2.2	2.6	2.4	6.0
23.....			2.3	2.4	2.0	3.8	3.8	2.4	2.2	2.5	2.4	6.0
24.....			2.3	2.4	2.2	3.6	3.8	2.4	2.2	2.3	2.5	5.3
25.....		2.9	2.3	2.4	2.5	3.6	3.8	2.4	2.2	2.3	2.6	5.0
26.....		3.2	2.2	2.3	2.7	3.9	3.7	2.3	2.3	2.3	2.8	4.6
27.....		3.7	2.2	2.3	3.0	3.9	3.6	2.3	2.3	2.3	2.8	4.4
28.....			2.0	2.3	3.0	4.0	3.6	2.3	2.4	2.2	2.9	3.9
29.....			2.5	2.2	3.0	5.2	3.7	2.2	2.6	2.2	2.9	Frozen.
30.....			4.1	2.0	3.0	6.1	3.7	2.2	2.9	2.2	2.9	
31.....			4.3		3.0		3.7	2.2		2.1		
Means.....			2.8	3.0	2.2	3.4	4.0	2.6	2.3	2.9	2.4	4.7

## OHIO RIVER SYSTEM—SCIOTO RIVER, COLUMBUS OHIO.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	Frozen.	7.2	15.8	3.5	3.2	2.8	3.5	2.6	1.8	1.9	2.2	Frozen.
2.....		6.1	12.0	3.4	3.2	2.8	3.5	2.6	1.8	1.9	2.2	
3.....	4.0	6.0	11.2	3.4	3.2	2.8	3.5	2.6	1.8	1.9	2.2	
4.....	7.9	12.0	8.9	5.0	3.2	2.8	3.5	2.6	1.8	1.9	2.2	
5.....	8.6	11.2	6.6	7.0	3.2	2.0	3.5	2.6	1.8	1.8	2.2	
6.....	5.5	8.1	5.8	6.5	3.2	6.0	3.5	2.5	1.9	1.8	2.2	
7.....	5.2	6.9	5.5	5.5	3.2	8.7	3.5	2.3	2.0	1.8	2.2	
8.....	4.9	5.6	9.0	5.6	3.2	9.0	3.5	2.2	2.1	2.1	2.2	
9.....	4.6	5.1	10.0	5.6	3.2	7.8	3.5	2.2	2.2	2.2	2.3	
10.....	Frozen.	4.8	9.6	4.0	3.2	5.9	3.5	2.2	2.4	2.3	2.3	
11.....		4.8	11.6	4.0	3.2	4.9	3.7	2.2	2.8	2.4	2.5	
12.....		5.1	9.0	4.2	3.2	4.5	3.7	2.1	2.6	2.4	2.6	
13.....		6.0	7.0	5.0	3.2	4.8	3.9	2.1	2.5	2.4	2.6	
14.....		5.5	6.0	6.9	3.1	4.0	3.8	2.0	2.3	2.4	2.6	
15.....		5.7	5.2	8.0	2.9	3.8	3.8	2.0	2.2	2.4	2.6	
16.....		5.9	4.8	6.5	2.9	3.5	3.8	2.0	2.2	2.3	2.7	
17.....	Frozen.		5.0	5.8	2.8	3.5	3.8	2.0	2.2	2.3	2.8	
18.....			4.8	4.5	2.8	3.5	3.8	2.0	2.2	2.3	2.8	
19.....			4.6	4.5	2.4	3.4	3.8	2.0	2.1	2.3	2.7	
20.....			4.6	4.8	2.3	3.4	3.7	2.0	2.1	2.3	2.7	
21.....			5.5	3.8	2.0	3.5	3.5	1.9	2.1	2.3	2.6	4.0
22.....			5.5	3.8	1.6	3.6	3.5	1.9	2.1	2.3	2.7	4.1
23.....			5.0	3.6	1.6	3.8	3.0	1.9	2.1	2.3	2.8	4.1
24.....			4.8	3.3	1.8	3.8	3.0	1.9	2.0	2.3	2.9	4.1
25.....			4.7	3.3	3.0	3.8	2.8	1.9	2.0	2.3	2.9	4.1
26.....			4.6	3.2	3.0	3.7	2.6	1.9	2.0	2.3	2.9	Frozen.
27.....		4.3	3.8	3.4	3.0	3.7	2.6	1.9	2.0	2.3	2.9	
28.....	4.0	a 13.5	3.6	3.4	2.8	3.6	2.6	1.9	2.0	2.2	Frozen.	
29.....	10.0		3.6	3.3	2.6	3.5	2.4	1.9	2.0	2.2		
30.....	11.0		3.5	3.3	2.7	3.5	2.4	1.9	2.0	2.2		
31.....	8.4		3.5		2.8		2.4	1.9		2.2		
Means.....		6.9	6.6	4.6	2.8	4.2	3.3	2.1	2.1	2.2	2.5	
<b>1904</b>												
1.....	Frozen.	5.4	11.5	12.7	5.6	3.5	2.8	2.5	2.3	2.0	1.8	1.2
2.....		5.4	9.6	18.6	5.4	3.4	2.8	2.5	2.1	2.0	1.7	1.0
3.....	Frozen.		9.0	14.0	4.0	3.7	2.8	2.5	2.0	2.0	1.7	1.0
4.....			15.5	11.0	4.0	3.5	2.8	2.5	1.8	2.0	1.8	1.0
5.....			12.0	7.8	3.7	3.4	2.8	2.5	1.8	2.0	1.7	1.0
6.....			9.0	5.6	3.5	3.0	2.8	2.3	1.8	2.0	1.7	1.0
7.....		5.5	6.0	5.3	3.4	3.0	8.0	2.3	1.8	2.0	1.7	1.0
8.....		11.4	5.5	5.4	3.5	2.8	9.5	2.3	1.8	2.0	1.8	1.0
9.....		8.5	5.5	5.3	3.6	2.7	12.0	2.0	1.8	2.0	1.8	1.0
10.....		8.3	4.5	5.6	3.8	2.7	7.5	2.2	1.6	2.0	1.8	1.0
11.....		8.3	4.5	5.5	3.0	2.5	5.9	2.2	1.7	2.0	1.7	1.0
12.....		7.8	4.0	5.6	2.8	2.4	5.0	2.2	1.7	2.5	1.7	1.0
13.....		7.7	4.0	5.4	2.7	2.8	4.4	2.0	2.0	2.5	1.6	1.0
14.....		7.8	3.5	4.0	2.7	2.7	4.9	2.0	1.7	2.6	1.7	Frozen.
15.....		7.3	4.0	4.5	2.7	2.7	3.7	2.0	2.0	2.5	1.7	
16.....	Frozen.		3.5	4.0	2.7	2.7	3.6	2.0	2.0	2.5	1.7	
17.....			3.0	3.6	2.7	2.6	3.3	2.0	2.0	2.0	1.7	
18.....			3.5	3.6	2.7	2.5	3.1	2.0	2.0	2.0	1.7	
19.....			5.6	3.0	2.7	2.5	3.0	1.9	1.8	2.0	1.6	
20.....			5.5	3.0	2.7	3.0	2.8	1.9	1.7	2.0	1.6	
21.....	3.5		5.5	3.0	2.7	2.8	2.7	1.7	1.6	2.0	1.6	
22.....	17.5		5.5	3.5	2.8	2.8	2.3	1.7	1.6	2.0	1.5	
23.....	17.6	8.6	6.0	3.5	2.8	2.7	2.6	2.0	1.5	2.0	1.6	
24.....	11.5	9.0	7.6	3.3	2.8	3.0	2.5	2.0	1.4	2.0	1.5	1.5
25.....	10.6	6.3	7.0	3.5	2.8	3.1	2.5	2.0	1.4	2.0	1.4	1.4
26.....	5.5	5.5	16.2	5.6	2.8	3.0	2.5	2.6	2.0	2.0	1.5	1.4
27.....	5.5	5.5	16.0	5.6	2.8	2.9	2.5	2.5	2.0	2.0	1.4	3.3
28.....	5.5	5.7	10.6	5.5	2.8	2.7	2.5	2.0	1.8	2.0	1.4	4.0
29.....	5.5	6.0	7.7	5.5	2.8	2.9	2.5	2.4	1.7	2.0	1.4	3.6
30.....	5.4		6.0	5.6	2.7	3.0	2.5	2.0	1.8	2.0	1.4	3.5
31.....	5.4		7.5		2.7		2.4	2.3		2.0		3.5
Means.....		7.2	7.3	5.9	3.2	2.9	3.9	2.2	1.8	2.1	1.6	1.7

a 15.5 at 11 a. m.

## OHIO RIVER SYSTEM—LICKING RIVER, FALMOUTH, KY.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	Frozen.	Frozen.	5.0	2.9	1.4	3.0	3.7	5.8	1.2	0.5	0.3	4.6
2.....			4.8	2.8	1.3	2.3	2.0	2.6	1.0	0.5	0.3	4.0
3.....			4.5	2.7	1.3	1.9	1.7	3.4	1.0	0.5	0.3	3.5
4.....			4.4	2.6	1.3	1.9	1.5	5.0	0.9	0.5	0.3	4.5
5.....			4.4	2.5	1.2	1.8	1.4	3.0	0.8	0.5	0.3	4.8
6.....		2.7	4.4	2.4	1.2	1.5	1.3	2.5	0.7	0.5	0.3	5.0
7.....		3.7	5.5	2.2	1.2	1.5	1.2	2.3	0.6	0.7	0.3	5.2
8.....		10.7	5.0	2.1	1.2	1.5	1.1	2.0	0.5	0.7	0.3	5.0
9.....		14.9	4.5	2.0	2.0	1.7	1.0	1.8	0.5	0.7	0.3	4.8
10.....		10.6	4.0	1.9	2.8	1.8	1.0	1.6	0.5	0.6	0.3	4.6
11.....	2.5	8.0	3.6	1.9	2.0	1.8	1.0	1.4	0.5	0.6	0.8	4.4
12.....	7.8	6.0	3.3	1.8	1.5	1.7	1.0	1.0	0.5	0.6	1.0	4.2
13.....	8.7	6.0	3.0	1.8	1.5	1.5	1.0	1.0	0.5	0.5	0.9	4.0
14.....	6.3	6.0	2.8	1.8	1.5	1.5	1.0	1.2	0.4	0.5	0.9	4.0
15.....	6.0	6.0	2.7	1.8	1.4	1.4	1.0	1.2	0.4	0.5	0.8	3.7
16.....	5.0	5.5	2.6	1.8	1.3	1.3	1.0	1.6	0.4	0.5	0.7	3.6
17.....	4.5	5.0	2.4	1.8	1.3	1.3	0.9	2.5	0.4	0.5	0.6	3.5
18.....	4.0	4.0	2.4	2.0	1.2	1.3	0.9	2.5	0.4	0.5	0.4	3.2
19.....	3.9	3.0	2.4	2.0	1.1	1.2	0.8	2.5	0.4	0.4	0.3	3.0
20.....	6.3	2.8	5.6	2.0	1.0	1.0	0.8	2.5	0.4	0.4	1.0	2.9
21.....	8.9	3.1	7.8	1.9	1.0	0.9	0.7	2.5	0.4	0.4	13.0	2.7
22.....	8.9	6.7	8.6	1.8	1.0	0.8	0.7	2.5	0.4	0.4	5.7	2.4
23.....	5.8	8.0	6.2	1.7	2.2	0.7	1.7	2.8	0.4	1.0	5.3	2.4
24.....	4.2	7.5	5.6	1.6	2.0	1.7	1.9	2.8	0.4	1.0	6.0	2.4
25.....	3.8	6.0	4.2	1.5	1.8	1.7	1.9	3.5	0.4	0.9	15.0	2.2
26.....	3.2	5.5	4.2	1.5	1.5	1.7	3.5	3.0	0.4	0.8	15.8	2.0
27.....	3.0	5.3	4.2	1.5	1.4	1.7	4.5	2.0	0.4	0.7	14.5	1.9
28.....	2.8	5.0	4.0	1.5	1.0	1.7	6.5	2.0	0.4	0.6	12.8	1.8
29.....	Frozen.		3.8	1.5	1.0	1.9	3.3	1.8	0.4	0.5	11.0	1.8
30.....			3.2	1.5	2.5	2.5	3.3	1.6	0.5	0.4	7.8	1.8
31.....			3.0		3.5		3.8	1.4		0.3		5.2
Means.	5.3	6.2	4.3	2.0	1.5	1.6	1.8	2.4	0.5	0.6	3.9	3.5
<b>1901</b>												
1.....	7.2	1.8	1.7	2.0	3.8	2.7	2.5	1.0	1.3	1.2	0.2	1.0
2.....	6.4	1.7	1.6	1.5	3.5	2.6	5.0	0.9	2.8	1.4	0.2	0.9
3.....	6.0	1.7	1.6	1.5	3.0	2.6	4.0	0.9	2.8	1.4	0.2	0.8
4.....	5.0	7.0	1.6	3.0	2.8	2.6	3.0	0.8	2.6	1.4	0.2	0.7
5.....	4.7	6.5	1.5	8.0	2.7	2.6	3.0	0.8	2.4	1.3	0.2	0.6
6.....	4.5	6.0	1.5	6.0	2.6	5.0	3.2	0.7	2.0	1.3	0.2	0.7
7.....	4.0	5.0	1.5	4.2	2.4	5.0	3.2	0.7	1.8	1.2	0.2	0.8
8.....	3.2	4.5	1.5	4.0	2.6	4.1	3.0	0.7	1.6	1.2	0.2	0.9
9.....	2.6	4.3	2.0	3.8	2.8	3.8	2.8	0.6	1.5	1.2	0.2	1.0
10.....	2.6	4.1	3.5	3.6	2.6	3.2	2.4	0.6	1.5	1.2	0.2	3.4
11.....	4.0	4.0	5.5	3.4	2.6	3.0	2.0	0.5	1.5	1.2	0.2	2.4
12.....	5.0	3.8	4.5	3.0	2.6	2.8	1.6	0.5	1.8	1.1	0.6	2.0
13.....	7.2	3.5	4.0	2.8	2.7	2.6	1.4	0.5	1.8	1.1	0.8	2.0
14.....	6.2	3.2	3.5	2.8	2.8	2.8	1.3	0.5	1.7	1.0	0.8	3.8
15.....	5.2	3.1	3.5	2.8	2.8	4.0	1.3	1.5	1.6	1.0	0.7	8.4
16.....	4.7	3.0	3.5	2.8	2.6	4.0	1.2	1.5	1.6	0.9	0.7	10.3
17.....	4.0	2.8	3.4	2.8	2.4	3.8	1.2	1.5	1.6	0.8	0.6	8.0
18.....	3.8	2.5	3.2	2.9	2.2	3.6	1.2	1.6	1.6	0.7	0.6	6.0
19.....	3.6	2.3	3.2	8.2	2.0	3.4	1.4	1.6	2.0	0.6	0.5	5.5
20.....	3.4	2.0	3.0	19.3	2.5	3.0	1.3	1.6	2.5	0.5	0.5	Frozen.
21.....	3.0	2.0	2.8	18.2	3.0	3.0	1.2	1.6	4.0	0.4	0.4	.....
22.....	2.6	1.9	1.0	16.4	8.0	3.2	1.2	1.6	3.6	0.4	0.4	.....
23.....	2.3	1.9	1.3	17.4	11.0	3.2	1.1	2.0	2.6	0.3	0.4	.....
24.....	2.1	1.9	1.6	16.0	10.0	3.0	1.1	1.9	1.6	0.3	0.6	.....
25.....	2.0	1.8	1.6	13.7	8.0	3.0	1.1	1.9	1.2	0.3	0.8	2.0
26.....	2.0	1.8	2.0	11.0	6.0	3.5	1.0	1.7	1.1	0.2	1.0	4.0
27.....	2.0	1.7	3.0	9.0	3.4	4.0	0.9	1.6	1.0	0.2	0.8	6.0
28.....	2.0	1.7	2.0	6.8	3.0	5.0	0.9	1.4	1.0	0.2	0.9	5.8
29.....	1.8		4.0	5.5	2.9	4.5	0.9	1.6	1.0	0.2	1.0	5.4
30.....	1.8		3.0	4.0	2.8	3.0	0.9	1.3	1.0	0.2	1.0	5.2
31.....	1.8		2.5		2.8		1.0	1.3		0.2		5.0
Means.	3.8	3.1	2.6	6.9	3.7	3.4	1.8	1.2	1.9	0.8	0.5	3.6

\* 20.2 during day.

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—LICKING RIVER, FALMOUTH, KY.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	6.0	12.9	13.0	7.0	5.5	2.4	4.6	1.3	0.2	0.2	0.7	3.0
2.....	5.0	12.4	13.0	6.5	5.4	2.4	5.0	1.3	0.2	2.0	0.7	2.7
3.....	4.8	11.0	10.0	6.0	5.2	2.2	4.0	1.2	0.2	1.6	0.6	7.9
4.....	4.4	10.0	6.0	5.0	5.0	2.0	3.6	1.2	0.1	1.8	0.6	7.0
5.....	4.0	8.0	4.8	4.0	4.8	2.0	3.4	1.2	0.1	1.8	0.5	6.0
6.....	3.0	6.0	4.0	3.7	4.5	2.0	3.2	1.2	0.1	1.8	0.6	5.0
7.....	2.0	5.0	7.6	3.4	4.0	3.0	3.0	1.2	0.1	1.7	0.7	3.8
8.....	2.0	4.0	10.6	3.0	3.5	3.3	2.8	1.1	0.1	1.6	0.8	3.6
9.....	2.0	3.5	14.5	3.0	3.0	3.4	2.6	1.1	0.1	1.5	0.8	3.8
10.....	2.0	3.0	15.0	2.9	2.0	3.4	2.5	1.1	0.1	1.4	0.8	3.8
11.....	2.0	2.5	11.5	2.9	1.8	2.6	2.5	1.8	0.1	1.4	0.7	3.8
12.....	2.0	2.0	10.0	2.9	1.8	2.5	2.4	2.0	0.1	1.4	0.7	4.0
13.....	Frozen.	Frozen.	9.5	2.8	1.7	2.4	2.3	2.2	0.1	1.6	0.6	13.8
14.....			9.3	2.8	1.7	2.4	2.2	2.2	0.3	1.5	0.6	16.8
15.....			9.0	2.8	1.6	2.3	2.0	2.0	0.3	1.4	0.6	15.0
16.....			7.8	2.7	1.6	2.0	1.8	1.8	0.2	1.3	0.6	28.2
17.....			6.5	2.6	1.6	2.0	1.6	1.6	0.2	1.2	0.7	25.5
18.....			7.6	2.5	2.0	2.2	1.6	1.4	0.1	1.1	0.8	16.5
19.....			7.5	2.5	1.8	2.3	2.5	1.0	0.1	1.0	0.8	13.5
20.....			7.0	2.4	1.8	2.4	2.5	0.8	0.1	0.9	0.8	11.0
21.....	1.0		6.5	2.4	3.0	2.5	2.0	0.7	0.1	0.8	0.8	9.0
22.....	1.4		6.0	2.3	3.5	2.4	1.8	0.6	0.1	0.7	0.8	8.5
23.....	1.8	2.0	5.5	2.3	4.0	2.3	1.8	0.5	0.1	0.6	1.8	6.5
24.....	2.6	5.0	4.5	2.2	14.4	2.2	1.8	0.4	0.2	0.5	2.0	5.0
25.....	3.0	6.0	4.0	2.1	5.7	2.0	1.7	0.4	0.4	0.4	6.8	4.8
26.....	4.0	7.0	4.0	2.0	8.0	1.8	1.6	0.3	0.6	0.3	6.5	4.5
27.....	16.0	9.0	4.5	2.0	5.5	2.0	1.5	0.3	0.6	0.3	5.5	4.0
28.....	17.4	11.5	4.8	2.0	4.5	2.4	1.4	0.3	0.5	1.3	5.0	3.0
29.....	14.0		5.0	3.5	3.5	6.6	1.4	0.2	0.3	1.0	4.5	2.8
30.....	14.6		6.0	4.9	3.0	5.6	1.5	0.2	0.2	0.8	4.0	2.8
31.....	15.4		7.5		2.2		1.4	0.2		0.7		5.5
Means.	5.7	6.7	7.8	3.2	3.8	2.6	2.4	1.1	0.2	1.1	1.7	8.1
<b>1903</b>												
1.....	5.2	8.5	18.5	10.5	3.0	1.7	1.4	1.5	0.8	0.2	0.2	Frozen.
2.....	4.4	12.5	14.0	8.0	3.0	1.8	1.4	1.5	0.7	0.2	0.2	
3.....	10.3	11.0	11.0	6.5	3.0	1.9	1.3	1.5	0.4	0.2	0.2	
4.....	10.3	16.5	9.5	5.0	3.0	1.9	1.2	1.7	0.4	0.2	0.2	
5.....	9.1	13.0	8.5	4.0	3.0	2.0	1.1	1.8	0.4	0.2	0.4	
6.....	8.5	11.0	5.0	3.8	3.0	2.0	1.0	1.9	0.4	0.2	0.6	
7.....	8.0	8.0	5.5	3.6	2.9	3.0	0.9	2.0	0.4	0.2	0.6	
8.....	7.0	7.0	14.3	3.5	2.9	3.0	0.8	1.9	0.4	0.2	0.5	
9.....	5.0	6.8	15.3	6.0	2.8	2.9	0.8	1.8	0.4	1.2	0.4	
10.....	3.5	5.0	11.3	8.2	2.8	2.8	0.8	1.7	0.4	1.2	0.4	
11.....	Frozen.	3.8	9.9	8.2	2.7	2.7	1.8	1.5	0.4	1.1	0.4	
12.....		4.0	8.0	7.5	2.6	2.6	2.0	1.4	0.4	1.1	0.4	
13.....		6.0	7.0	12.0	2.5	2.5	2.0	1.4	0.4	1.0	0.6	
14.....		6.0	6.0	7.7	2.4	2.4	1.8	1.4	0.4	1.0	0.5	
15.....		7.0	5.0	8.0	2.3	2.3	1.8	2.0	0.3	0.9	0.5	
16.....		25.2	4.0	8.5	2.2	2.2	1.7	1.8	0.3	0.8	0.4	
17.....	3.2	23.2	4.5	8.0	2.1	2.1	1.7	1.6	0.3	0.7	0.6	
18.....	3.0	14.2	6.0	7.0	2.0	2.0	1.5	1.0	0.3	0.6	1.0	
19.....	2.8	11.8	6.0	6.0	1.8	1.8	1.4	0.8	0.3	0.5	2.0	
20.....	2.7	8.4	5.5	6.5	1.7	1.6	1.3	0.6	0.3	0.4	1.9	
21.....	2.7	7.5	5.0	8.0	1.7	1.4	1.2	0.6	0.2	0.4	1.8	3.4
22.....	2.6	5.0	4.2	7.5	1.7	1.2	1.0	0.5	0.2	0.3	1.6	3.0
23.....	2.5	5.5	5.8	7.5	1.6	1.0	2.5	0.5	0.2	0.3	1.3	2.5
24.....	2.7	6.0	5.0	6.5	1.5	1.0	2.0	0.5	0.2	0.9	1.0	1.8
25.....	3.5	6.0	5.0	6.0	1.4	0.9	1.8	0.4	0.2	0.7	0.9	1.4
26.....	4.0	6.2	4.0	5.5	1.3	0.8	1.8	0.4	0.2	0.5	0.8	1.0
27.....	5.0	6.5	3.5	5.0	1.2	0.7	1.6	0.4	0.2	0.2	0.6	Frozen.
28.....	6.0	18.0	3.0	4.0	1.3	0.6	1.3	0.4	0.2	0.2	0.5	
29.....	5.0		4.0	3.5	1.4	1.5	1.0	0.5	0.2	0.2	0.4	
30.....	4.5		6.0	3.0	1.5	1.3	0.8	1.5	0.2	0.2	0.4	
31.....	4.0		9.5		1.5		0.5	1.0		0.2		
Means.	5.0	9.6	7.4	6.5	2.2	1.9	1.4	1.2	0.3	0.5	0.7	



## OHIO RIVER SYSTEM—LICKING RIVER, FALMOUTH, KY.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	Frozen.	Frozen.	3.3	13.3	4.5	6.3	1.0	0.8	1.4	0.2	0.0	0.2
2.....			3.3	12.0	4.5	5.5	1.0	0.8	1.2	0.2	0.0	0.2
3.....			4.0	11.0	4.5	5.0	0.8	0.7	1.1	0.2	0.1	0.2
4.....			4.5	10.0	4.4	4.8	0.8	0.7	1.3	0.2	0.1	0.2
5.....			5.0	9.5	4.4	4.6	0.8	1.3	1.2	0.2	0.1	0.2
6.....			4.2	9.0	4.3	4.4	1.0	1.0	1.0	0.2	0.1	0.2
7.....		6.0	4.2	8.5	4.2	4.2	1.5	0.8	0.9	0.2	0.1	0.2
8.....		8.0	6.0	8.0	4.2	4.0	1.8	0.7	0.8	0.2	0.1	0.2
9.....		7.0	8.0	7.0	4.2	3.8	2.0	0.7	0.7	0.1	0.1	0.2
10.....		5.0	7.0	6.5	4.1	3.7	4.0	0.8	0.6	0.1	0.1	Frozen.
11.....		4.0	6.5	5.0	4.0	3.6	3.5	2.0	0.5	0.1	0.2	.....
12.....		3.8	6.0	4.8	3.8	3.5	3.4	1.5	0.4	0.2	0.2	.....
13.....		3.0	5.5	4.0	3.7	3.4	3.2	1.0	0.4	0.2	0.2	.....
14.....		2.8	5.3	3.5	3.7	3.2	3.0	1.0	0.3	0.2	0.2	.....
15.....		2.5	5.0	3.5	3.6	3.0	2.5	0.8	0.3	0.2	0.2	.....
16.....		Frozen.	4.5	3.5	3.4	2.8	2.0	0.8	0.3	0.1	0.2	.....
17.....	3.8		4.4	3.4	3.2	2.8	3.0	0.8	0.3	0.1	0.2	.....
18.....	3.0		4.3	3.4	3.0	2.5	2.8	0.7	0.3	0.0	0.2	.....
19.....	3.0		4.2	3.3	2.8	2.3	2.6	0.9	0.3	0.0	0.2	.....
20.....	3.0		4.0	3.3	2.5	2.0	2.5	2.0	0.4	0.0	0.2	.....
21.....	3.0		3.5	3.2	2.3	2.0	2.4	3.0	0.4	0.0	0.2	.....
22.....	7.3	7.0	3.0	3.2	2.0	2.0	2.3	2.8	0.3	0.0	0.2	.....
23.....	7.0	6.0	19.0	3.1	1.8	1.8	2.2	2.6	0.3	0.0	0.2	0.3
24.....	7.0	5.0	15.3	3.1	1.8	1.7	2.0	2.4	0.2	0.0	0.2	0.4
25.....	4.0	4.0	11.8	3.0	1.8	1.8	1.8	2.2	0.2	0.0	0.2	0.4
26.....	3.5	3.8	17.6	8.0	1.7	2.0	1.6	2.0	0.2	0.0	0.2	0.4
27.....	3.5	3.6	13.3	7.0	1.7	3.0	1.4	1.6	0.2	0.0	0.2	1.5
28.....	3.0	3.4	11.2	6.5	1.7	3.5	1.2	1.5	0.2	0.0	0.2	1.8
29.....	2.5	3.3	8.0	6.0	1.7	2.0	1.0	1.4	0.2	0.0	0.2	1.6
30.....	2.3		5.5	5.0	2.0	1.2	0.9	1.2	0.2	0.0	0.2	1.5
31.....	2.0		8.7		2.2		0.8	1.0		0.0		1.5
Means.	3.9	4.6	7.0	6.0	3.2	3.2	2.0	1.3	0.5	0.1	0.2	0.6

## OHIO RIVER SYSTEM—MIAMI RIVER, DAYTON, OHIO.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	1.3	2.0	3.0	2.5	1.4	1.5	1.8	1.0	0.9	1.4	1.0	1.9
2.....	1.3	2.0	3.7	2.4	1.4	3.1	1.5	1.0	0.8	1.1	0.9	1.8
3.....	1.3	1.9	3.4	2.5	1.4	3.5	1.5	1.1	0.9	1.1	1.0	1.6
4.....	1.3	1.8	3.5	2.3	1.3	2.6	1.3	1.0	0.9	1.0	1.0	1.6
5.....	1.3	1.7	3.5	2.0	1.3	2.2	1.3	0.9	0.8	0.9	0.9	1.5
6.....	1.4	1.7	6.2	1.8	1.4	2.0	1.2	0.9	0.9	1.0	0.9	1.6
7.....	1.3	1.6	8.6	1.8	1.3	2.0	1.1	0.9	0.8	1.4	1.0	1.6
8.....	1.2	2.3	5.8	1.7	1.3	1.7	1.1	0.9	0.8	2.5	0.9	1.7
9.....	1.2	5.9	4.3	1.7	1.5	1.7	1.0	0.9	1.0	2.0	0.9	1.7
10.....	1.1	4.3	3.9	1.6	1.5	1.6	1.0	0.9	0.9	1.7	0.9	1.7
11.....	1.0	3.3	3.8	1.5	1.6	1.5	1.0	0.8	0.8	1.6	0.8	1.6
12.....	2.2	3.3	3.4	1.8	1.5	1.4	1.1	0.8	0.7	1.3	0.8	1.5
13.....	1.9	3.0	3.0	2.1	1.4	1.3	1.0	0.8	0.7	1.2	0.9	1.4
14.....	1.8	4.2	2.7	2.1	1.3	1.3	0.9	0.8	0.7	1.1	0.9	1.4
15.....	1.7	3.3	2.5	2.0	1.3	1.3	0.9	0.8	0.6	1.1	0.9	1.4
16.....	1.8	2.4	2.3	1.9	1.2	1.1	1.0	2.1	0.6	1.0	0.8	1.3
17.....	2.8	2.2	2.4	1.8	1.2	1.2	0.9	1.5	1.0	0.9	0.8	1.3
18.....	2.6	2.3	2.1	2.6	1.1	1.1	1.3	1.4	0.9	0.9	0.8	1.2
19.....	2.4	2.3	2.0	3.4	1.4	1.0	1.1	1.4	0.8	0.9	1.0	1.2
20.....	2.5	2.2	2.1	2.8	1.5	1.0	1.5	1.4	0.8	0.9	1.0	1.1
21.....	6.8	2.2	2.0	2.5	1.4	1.0	1.2	1.2	0.7	0.9	1.1	1.1
22.....	4.8	2.3	1.9	2.4	1.3	1.0	1.2	1.4	0.6	1.0	1.6	1.1
23.....	3.5	2.3	1.8	2.2	1.3	1.0	1.1	1.6	0.7	1.0	1.9	1.1
24.....	3.0	2.4	1.7	2.1	1.2	1.1	1.2	1.5	0.8	1.9	2.2	1.0
25.....	2.7	2.9	1.7	2.0	1.1	1.4	1.2	1.5	0.7	1.6	2.8	1.0
26.....	2.4	2.2	1.8	1.9	1.2	1.8	1.0	3.8	0.6	1.1	3.6	0.9
27.....	2.0	2.2	1.8	1.8	1.2	2.6	1.0	2.3	0.6	1.1	3.0	0.8
28.....	2.0	2.1	1.8	1.6	1.3	2.3	1.0	2.5	0.9	1.2	2.6	1.0
29.....	2.0		1.7	1.5	1.1	2.0	1.0	2.7	0.9	1.1	2.3	0.9
30.....	2.0		2.1	1.5	1.1	2.0	1.0	2.8	0.8	1.0	2.1	0.9
31.....	2.0		2.0		1.2		1.2	2.9		1.0		1.0
Means.	2.1	2.6	3.0	2.1	1.3	1.7	1.1	1.5	0.8	1.2	1.4	1.3

\*19.5 at 12 noon.

## OHIO RIVER SYSTEM—MIAMI RIVER, DAYTON, OHIO—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	1.0	1.2	1.3	2.0	1.7	1.8	1.5	0.5	0.7	0.6	0.3	0.2
2.....	1.0	1.2	1.3	1.9	1.7	1.6	1.4	0.6	0.8	0.6	0.3	0.3
3.....	0.9	1.3	1.4	2.0	1.6	1.6	1.4	0.6	0.8	0.5	0.3	0.3
4.....	0.9	1.5	2.2	1.9	1.5	1.5	1.6	0.6	0.6	0.5	0.5	0.3
5.....	0.9	2.1	2.5	1.8	1.5	1.4	1.5	0.6	0.5	0.4	0.5	0.3
6.....	0.9	2.6	2.6	1.7	1.5	1.4	1.5	0.5	0.4	0.4	0.4	0.3
7.....	1.0	2.6	2.6	1.7	1.6	1.5	1.5	0.5	0.4	0.4	0.3	0.3
8.....	1.0	2.5	2.4	1.6	1.6	1.4	1.4	0.5	0.6	0.4	0.3	0.4
9.....	1.1	2.5	2.2	1.5	1.7	1.3	1.2	0.5	0.6	0.5	0.3	0.6
10.....	1.4	2.2	5.9	1.3	1.9	1.3	1.1	0.4	0.6	0.5	0.3	0.4
11.....	3.3	1.9	7.0	1.0	2.3	1.2	1.0	0.5	0.5	0.5	0.3	0.2
12.....	3.4	1.8	5.2	1.0	2.2	1.2	0.9	0.7	0.7	0.5	0.4	0.1
13.....	3.0	1.7	4.0	1.4	1.9	1.3	0.8	0.5	0.6	0.6	0.3	0.2
14.....	2.5	1.5	3.9	1.6	1.8	2.0	0.8	0.5	0.6	0.7	0.3	0.4
15.....	2.2	1.5	3.5	1.5	1.7	1.6	0.9	0.8	0.7	0.6	0.3	1.9
16.....	2.1	1.4	3.2	1.7	1.6	2.2	1.0	0.7	0.7	0.6	0.3	1.6
17.....	2.0	1.4	2.9	2.0	1.4	1.7	0.9	0.7	0.7	0.6	0.3	1.4
18.....	2.0	1.3	2.8	2.0	1.3	1.5	1.1	0.7	0.6	0.5	0.2	1.4
19.....	1.9	1.3	2.6	2.3	1.3	1.2	1.0	0.9	0.7	0.4	0.2	1.3
20.....	1.9	1.3	2.4	2.6	1.2	1.2	0.8	1.0	0.6	0.3	0.2	1.3
21.....	1.9	1.3	2.2	2.3	1.4	1.5	1.0	0.9	0.6	0.3	0.2	1.3
22.....	1.6	1.3	2.3	2.2	1.7	2.0	0.9	1.0	0.7	0.4	0.2	1.4
23.....	1.5	1.3	2.1	3.4	1.8	2.9	0.9	0.9	0.6	0.3	0.2	1.4
24.....	1.5	1.3	2.1	3.1	1.6	2.9	0.9	0.9	0.5	0.3	0.1	1.1
25.....	1.4	1.3	2.2	2.8	1.5	2.2	0.9	0.9	0.4	0.3	0.2	1.1
26.....	1.3	1.3	2.8	2.5	1.5	2.0	0.9	0.8	0.4	0.2	0.2	1.0
27.....	1.3	1.3	2.8	2.4	1.4	2.0	0.8	0.8	0.4	0.2	0.2	1.1
28.....	1.3	1.3	2.4	2.2	1.4	2.0	0.9	0.8	0.4	0.3	0.2	1.0
29.....	1.3	.....	2.1	2.1	1.4	1.9	0.8	0.7	0.5	0.3	0.3	1.1
30.....	1.2	.....	2.0	2.0	1.6	1.8	0.8	0.7	0.7	0.3	0.3	1.2
31.....	1.3	.....	2.0	.....	2.0	.....	0.7	0.8	.....	0.3	.....	1.2
<b>Means.</b>	<b>1.6</b>	<b>1.6</b>	<b>2.8</b>	<b>2.0</b>	<b>1.6</b>	<b>1.7</b>	<b>1.1</b>	<b>0.7</b>	<b>0.6</b>	<b>0.4</b>	<b>0.3</b>	<b>0.8</b>
<b>1902</b>												
1.....	1.0	0.8	1.8	2.3	1.1	0.8	6.3	1.2	0.6	2.1	1.0	2.1
2.....	1.1	0.8	2.1	2.1	1.0	0.8	4.3	1.3	0.6	2.7	0.9	2.3
3.....	1.1	0.8	1.9	2.0	0.9	0.9	3.4	1.2	0.5	1.5	0.8	3.0
4.....	1.1	0.8	1.6	1.8	1.1	0.8	3.0	1.4	0.4	3.5	0.8	3.6
5.....	1.1	0.8	1.2	1.7	1.0	0.7	2.6	1.4	0.3	4.8	0.8	3.0
6.....	0.9	0.8	1.1	1.9	0.9	0.7	2.2	1.3	0.2	3.8	0.8	2.7
7.....	0.8	0.8	1.1	1.7	0.9	0.8	2.0	1.1	0.1	3.0	0.8	2.2
8.....	0.8	0.8	1.6	1.7	0.8	1.0	1.8	1.0	0.1	2.8	0.8	2.2
9.....	0.8	0.8	1.6	1.8	0.8	0.9	1.6	0.9	0.1	2.2	0.9	2.0
10.....	0.8	0.8	1.4	1.7	0.8	0.9	1.4	0.9	0.1	2.0	0.8	1.9
11.....	0.9	0.8	1.7	1.5	0.9	0.9	1.7	0.9	0.1	1.7	0.9	1.9
12.....	0.9	0.8	1.9	1.4	0.8	0.9	1.5	0.9	0.1	1.6	1.6	3.0
13.....	0.9	0.8	1.7	1.4	0.8	0.9	1.4	0.8	0.1	1.5	1.4	3.6
14.....	0.9	0.8	1.9	1.4	0.8	0.8	1.2	0.8	0.1	1.6	1.2	2.9
15.....	0.9	0.8	2.2	1.4	0.8	0.9	1.0	0.7	0.6	2.0	1.2	2.8
16.....	0.9	0.8	2.0	1.3	0.8	1.1	1.0	0.7	0.5	1.9	1.4	5.8
17.....	0.9	0.8	2.0	1.2	0.8	1.0	0.9	0.9	0.1	1.8	1.9	6.7
18.....	0.9	0.8	2.1	1.2	0.7	1.0	0.9	0.8	0.2	1.8	3.5	4.7
19.....	0.9	0.8	1.8	1.1	0.7	0.9	3.1	0.7	0.2	1.6	3.0	3.7
20.....	0.9	0.8	1.4	1.2	0.6	0.9	2.6	0.6	0.1	1.2	2.6	3.3
21.....	0.8	0.8	1.4	1.1	0.6	0.8	1.8	0.6	0.1	1.2	2.2	3.7
22.....	0.8	0.8	1.3	1.1	0.6	0.9	1.4	0.6	0.1	1.2	2.1	4.4
23.....	0.8	0.8	1.2	1.1	0.7	0.8	1.0	0.6	0.1	1.1	2.0	3.8
24.....	0.8	1.1	1.2	1.1	0.9	0.7	0.9	0.5	0.1	1.0	1.9	3.3
25.....	0.7	2.1	1.2	1.1	1.1	0.6	0.9	0.6	0.1	1.0	1.8	Frozen.
26.....	0.8	1.9	1.2	1.0	1.4	0.9	0.9	0.5	2.0	1.1	1.8	.....
27.....	0.8	1.7	1.3	1.0	1.3	1.1	0.8	0.5	1.6	1.1	1.9	.....
28.....	0.8	1.8	1.4	1.0	1.1	2.6	0.8	0.6	1.5	1.0	1.9	.....
29.....	0.8	.....	1.7	1.1	0.9	5.6	0.9	0.5	1.3	1.0	2.0	.....
30.....	0.8	.....	2.0	1.1	0.9	6.2	1.4	0.5	1.2	0.9	2.2	.....
31.....	0.8	.....	2.6	.....	0.9	.....	1.2	0.6	.....	0.8	.....	.....
<b>Means.</b>	<b>0.9</b>	<b>1.0</b>	<b>1.6</b>	<b>1.4</b>	<b>0.9</b>	<b>1.3</b>	<b>1.8</b>	<b>0.8</b>	<b>0.4</b>	<b>1.8</b>	<b>1.6</b>	<b>3.3</b>

## OHIO RIVER SYSTEM—MIAMI RIVER, DAYTON, OHIO—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	Frozen.	4.3	11.8	2.3	2.0	2.0	1.5	1.0	0.6	0.7	0.7	0.8
2.....		3.7	8.0	2.2	1.9	1.9	1.4	1.0	0.6	0.7	0.7	0.7
3.....	3.8	3.7	5.9	2.1	1.8	1.8	1.4	1.0	0.7	0.7	0.7	0.8
4.....	5.5	7.1	4.8	3.8	1.8	1.7	1.4		0.8	0.7	0.7	0.8
5.....	4.8	7.0	4.5	4.7	1.8	2.1	1.3		0.7	0.7	0.9	0.6
6.....	3.8	4.8	5.2	3.8	1.7	3.7	1.2		0.6	0.8	0.8	0.7
7.....	3.1	4.0	4.5	3.2	1.7	4.7	1.0		0.7	0.8	0.8	0.6
8.....	Frozen.	3.7	6.0	3.2	1.7	3.9	1.0		0.7	1.2	0.8	0.8
9.....		3.7	7.9	3.0	1.7	3.4	1.0		0.7	1.1	0.8	0.8
10.....		3.4	6.0	2.8	1.6	4.5	0.9		0.7	1.0	0.8	0.8
11.....		3.4	8.0	2.6	1.5	3.0	1.0		0.8	1.3	0.8	0.7
12.....		4.7	6.0	2.8	1.5	2.9	1.5		0.7	1.1	0.9	0.7
13.....		4.2	4.8	3.3	1.5	2.6	1.5		0.7	1.0	0.9	0.5
14.....		3.7	4.2	4.4	1.5	2.3	1.2		0.7	0.8	0.8	Frozen.
15.....		4.7	3.8	4.6	1.5	2.0	1.1		0.7	0.9	0.8	
16.....		Frozen.	3.6	3.9	1.5	1.9	1.0		0.7	0.8	0.8	
17.....			3.9	3.4	1.7	2.1	1.0	0.8	0.7	0.9	1.2	
18.....			3.8	3.0	1.5	2.0	1.1	0.8	0.7	0.8	2.0	
19.....			3.4	2.9	1.4	1.8	1.0	0.8	0.7	0.9	1.7	
20.....			3.1	2.7	1.4	1.8	1.0	0.8	0.7	0.8	1.2	2.3
21.....			3.3	2.5	1.4	1.9	1.0	0.7	0.7	0.8	1.2	3.0
22.....			3.2	2.2	1.5	1.8	1.0	0.7	0.7	0.8	1.1	2.5
23.....			3.1	2.2	1.5	1.9	1.0	0.7	0.7	0.7	1.0	2.3
24.....			3.0	2.2	1.8	1.7	1.1	0.7	0.7	0.8	1.0	1.7
25.....	2.1		2.9	2.1	2.2	1.7	1.1	0.6	0.7	0.7	1.0	2.4
26.....	2.0		2.7	2.4	2.4	1.5	1.1	0.7	0.8	0.8	0.9	Frozen.
27.....	2.0	3.4	2.5	2.1	2.6	1.5	1.0	0.7	0.7	0.7	0.9	
28.....	2.9	9.3	2.4	2.1	2.7	1.5	1.0	0.6	0.6	0.7	0.9	
29.....	6.0		2.4	2.0	2.4	1.4	1.0	0.7	0.7	0.8	1.0	
30.....	7.3		2.4	2.0	2.2	1.4	1.0	0.6	0.7	0.8	0.8	
31.....	5.3		2.4		2.1		1.0	0.7		0.8		
Means.....		4.6	4.5	2.9	1.8	2.3	1.1	0.8	0.7	0.8	1.0	1.2
<b>1904</b>												
1.....	Frozen.	Frozen.	5.9	8.2	2.1	2.4	2.6	1.0	0.6	0.6	0.4	0.5
2.....			4.0	11.0	2.0	2.6	2.3	0.9	0.6	0.6	0.4	0.5
3.....			5.0	10.2	2.0	2.3	2.0	0.9	0.6	0.6	0.5	0.5
4.....			9.4	8.0	1.8	2.0	1.8	0.8	0.6	0.5	0.4	0.5
5.....			7.2	5.0	1.7	1.7	1.6	0.7	0.6	0.5	0.4	0.5
6.....			5.7	4.9	1.7	1.5	1.6	0.7	0.6	0.5	0.5	0.5
7.....		7.0	4.2	3.5	1.6	1.5	1.8	0.6	0.6	0.6	0.5	0.5
8.....		9.2	4.2	3.2	1.6	1.4	4.5	0.6	0.5	0.6	0.5	0.5
9.....		6.7	3.4	3.0	1.6	1.3	4.1	0.6	0.5	0.6	0.5	0.6
10.....		4.7	3.2	3.0	1.5	1.3	3.8	0.6	0.5	0.5	0.5	0.6
11.....		4.3	3.2	2.8	1.5	1.2	3.4	0.5	0.5	0.2	0.6	0.6
12.....		3.1	3.0	2.8	1.5	1.1	3.1	0.5	0.5	0.2	0.5	Frozen.
13.....		2.5	3.0	2.8	1.4	1.1	2.8	0.5	0.5	0.2	0.5	
14.....		Frozen.	3.0	2.5	1.4	1.0	2.5	0.4	0.5	0.3	0.4	
15.....			3.2	2.5	1.4	1.0	2.1	0.4	0.5	0.3	0.4	
16.....			2.9	2.3	1.4	0.9	1.9	0.4	0.5	0.1	0.5	
17.....			2.5	2.3	1.4	1.1	1.7	0.5	0.4	0.4	0.5	
18.....			2.8	2.1	1.5	1.0	1.6	0.6	0.5	0.3	0.5	
19.....			4.0	2.1	1.5	1.0	1.4	0.6	0.5	0.3	0.5	
20.....			3.6	2.0	1.6	1.2	1.3	0.6	0.6	0.3	0.5	
21.....	5.5		3.0	2.0	1.9	3.8	1.2	1.0	0.6	0.3	0.4	
22.....	12.5		3.4	1.8	1.8	2.8	1.1	0.8	0.6	0.5	0.4	
23.....	10.0	4.6	4.0	1.8	1.6	2.3	1.1	0.7	0.5	0.6	0.4	
24.....	6.0	5.5	3.8	1.9	1.5	2.0	1.2	0.7	0.7	0.6	0.5	
25.....	4.0	5.3	4.0	2.1	1.5	1.8	1.1	0.7	0.7	0.6	0.5	1.2
26.....	4.0	5.0	11.6	2.5	1.4	1.6	1.1	0.7	0.7	0.5	0.5	1.4
27.....	4.0	4.6	13.2	3.0	1.4	1.4	1.0	0.7	0.8	0.5	0.4	2.2
28.....	4.0	5.0	9.0	3.2	1.5	1.3	1.0	0.7	0.8	0.5	0.4	2.8
29.....	4.0	6.4	6.0	2.6	1.5	2.0	1.2	0.6	0.7	0.6	0.4	1.8
30.....	3.0		4.5	2.3	1.5	2.1	1.1	0.7	0.7	0.6	0.5	Frozen.
31.....	3.0		6.0		1.7		1.0	0.7		0.6		
Means.....			4.9	3.6	1.6	1.7	1.9	0.7	0.6	0.5	0.5	1.0

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—KENTUCKY RIVER, JACKSON, KY.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1904</b>												
1										1.1	0.6	2.4
2										1.0	0.6	2.4
3										0.9	0.7	2.4
4										0.8	0.7	2.4
5										0.7	0.7	2.4
6										0.7	0.6	3.6
7										1.0	0.6	4.9
8										1.0	0.6	5.0
9										1.0	0.6	4.5
10										1.0	0.8	4.5
11										1.0	0.9	4.5
12										1.1	0.9	5.0
13										1.0	0.9	5.0
14										1.0	1.1	4.9
15										0.9	1.2	4.6
16										0.9	1.2	4.5
17										0.9	1.1	4.5
18										0.8	1.1	4.0
19										0.7	1.1	4.0
20										0.7	1.1	4.0
21										0.6	1.4	4.0
22										0.6	1.4	4.0
23										0.6	1.5	3.7
24										0.8	1.5	3.7
25										0.8	1.8	4.0
26										0.8	2.0	4.3
27										0.7	2.0	5.5
28										0.7	2.1	5.2
29										0.7	2.2	5.9
30										0.6	2.4	5.5
31										0.6		4.5
<b>Means.</b>										0.8	1.2	4.2

## OHIO RIVER SYSTEM—KENTUCKY RIVER, BEATTYVILLE, KY.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1											0.4	2.5
2											0.4	3.3
3											0.4	3.4
4											0.4	2.8
5											0.4	3.4
6											0.4	3.3
7											0.3	3.0
8											0.3	2.9
9											0.3	2.6
10											0.2	2.5
11											0.2	2.4
12										1.5	0.2	2.4
13										1.7	0.1	2.4
14										1.6	0.1	8.0
15										1.4	0.1	6.8
16										1.3	0.1	19.0
17										1.1	0.1	16.5
18										1.0	0.4	6.5
19										0.9	0.8	3.5
20										0.8	1.0	2.8
21										0.7	0.9	2.3
22										0.7	0.8	1.8
23										0.6	0.9	1.8
24										0.6	0.8	1.7
25										0.6	1.7	1.5
26										0.5	9.2	1.2
27										0.5	4.8	1.0
28										0.5	2.0	0.8
29										0.5	2.0	1.2
30										0.4	2.0	2.8
31										0.4		3.0
<b>Means.</b>										0.9	1.1	3.8

## OHIO RIVER SYSTEM—KENTUCKY RIVER, BEATTYVILLE, KY.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	2.6	1.9	37.5	3.0	3.0	1.4	0.9	2.0	1.6	0.4	0.4	0.7
2.....	2.5	2.0	18.8	3.0	3.0	1.4	0.9	2.4	1.0	0.4	0.4	0.7
3.....	4.2	2.0	5.2	3.5	2.7	1.4	0.9	2.6	0.6	0.4	0.4	0.7
4.....	4.0	9.6	4.4	3.0	2.7	1.4	0.8	2.0	0.6	0.4	0.4	0.7
5.....	2.9	18.0	3.5	3.5	2.6	1.4	0.8	1.8	0.6	0.4	0.4	0.7
6.....	3.0	6.5	3.0	3.5	2.5	1.6	0.8	1.6	0.6	0.4	0.5	0.7
7.....	2.8	4.0	3.2	3.0	2.5	4.0	0.8	1.4	0.6	0.9	0.5	0.7
8.....	2.8	3.5	3.8	12.0	2.4	3.5	0.8	1.5	0.6	1.0	0.5	0.7
9.....	2.8	2.9	8.0	21.0	2.3	2.0	0.8	1.6	0.6	1.0	0.5	0.7
10.....	2.5	2.8	10.0	9.0	2.3	1.6	0.8	1.4	0.6	0.8	0.4	0.7
11.....	2.5	2.8	8.0	4.5	2.2	1.4	0.7	1.2	0.6	0.7	0.4	0.7
12.....	2.9	4.0	9.0	3.8	2.1	1.3	0.7	1.0	0.6	0.6	0.4	0.7
13.....	4.3	4.0	6.5	3.8	2.1	1.2	0.7	0.8	0.6	0.6	0.4	0.7
14.....	3.0	3.0	5.5	16.0	1.9	1.1	0.7	0.8	0.6	0.6	0.4	0.7
15.....	2.5	4.2	4.0	14.5	1.8	1.1	0.7	0.7	0.6	0.5	0.4	0.7
16.....	2.3	27.6	3.5	7.0	1.7	1.0	0.7	0.7	0.6	0.5	0.4	0.7
17.....	2.8	28.5	3.5	5.5	1.7	1.0	0.7	0.7	0.6	0.5	2.2	0.7
18.....	2.6	14.9	2.5	5.5	1.6	1.0	0.7	0.7	0.6	0.5	2.0	0.7
19.....	2.6	5.0	2.5	4.2	1.6	1.0	1.5	0.7	0.5	0.5	2.0	0.7
20.....	2.4	4.0	2.3	4.2	1.6	1.0	2.0	0.7	0.5	0.5	2.3	1.0
21.....	1.6	3.5	2.8	8.5	1.6	0.9	1.8	0.7	0.4	0.5	1.9	1.8
22.....	1.6	3.3	3.0	6.5	1.6	0.9	2.0	0.6	0.4	0.5	1.5	2.0
23.....	1.6	3.5	4.0	5.0	1.5	0.9	0.8	0.6	0.4	0.5	1.4	1.8
24.....	1.6	3.5	9.5	4.0	1.5	0.8	0.8	0.6	0.4	0.5	1.4	1.7
25.....	2.0	3.2	6.0	4.0	1.5	0.8	0.7	0.6	0.4	0.5	1.4	2.5
26.....	2.7	3.2	4.0	4.8	1.5	0.8	0.6	0.6	0.4	0.5	1.3	3.2
27.....	2.7	3.2	3.5	3.8	1.4	0.7	0.5	0.6	0.4	0.5	1.3	3.0
28.....	2.6	18.5	2.0	3.7	1.4	0.9	0.4	0.6	0.4	0.5	1.3	2.5
29.....	2.3		2.5	3.6	1.4	1.0	0.4	0.6	0.4	0.5	0.9	2.3
30.....	2.2		2.7	3.6	1.6	0.9	0.4	2.6	0.4	0.5	0.8	2.0
31.....	2.0		3.0		1.6		1.0	1.9		0.5		1.8
<b>Means.</b>	<b>2.6</b>	<b>6.9</b>	<b>6.1</b>	<b>6.0</b>	<b>2.0</b>	<b>1.3</b>	<b>0.9</b>	<b>1.2</b>	<b>0.5</b>	<b>0.6</b>	<b>1.0</b>	<b>1.3</b>
<b>1904</b>												
1.....	1.6	1.4	2.0	2.6	3.5	2.4	1.0	0.3	0.3	0.2	-1.7	-0.3
2.....	1.4	1.0	1.8	2.5	3.0	1.6	1.0	0.4	0.3	0.2	-1.7	-0.3
3.....	3.0	0.9	2.0	2.0	2.0	1.4	1.0	0.3	0.3	0.2	-1.7	-0.3
4.....	1.2	0.9	2.6	1.8	2.0	1.6	1.0	0.3	0.3	0.2	-1.7	-0.3
5.....	1.2	0.8	2.8	1.6	2.9	1.4	0.9	0.3	0.3	0.2	-1.7	-0.1
6.....	1.2	1.2	2.6	1.5	2.9	1.2	0.8	0.3	0.3	0.2	-1.7	0.1
7.....	1.2	2.0	4.0	2.0	2.2	0.9	0.7	0.3	0.3	0.2	-1.7	0.1
8.....	1.0	3.0	7.6	1.4	1.9	0.9	0.6	0.3	0.3	0.2	-1.7	1.6
9.....	1.6	2.2	4.6	1.4	2.0	0.9	1.0	0.3	0.2	0.2	-1.7	1.3
10.....	1.8	2.3	3.0	1.3	2.5	0.9	1.0	0.3	0.2	0.2	-1.7	1.0
11.....	2.0	2.4	3.2	1.0	1.9	0.9	1.3	0.5	0.2	-1.0	-1.7	1.0
12.....	2.6	2.4	2.9	1.0	1.5	0.9	2.0	0.5	0.2	-1.0	-1.7	1.0
13.....	1.8	2.0	2.5	1.0	1.5	0.9	1.9	0.4	0.2	-1.0	-1.7	0.8
14.....	1.6	1.5	2.8	1.0	1.5	0.9	1.3	0.3	0.2	-1.0	-1.7	0.8
15.....	1.6	1.5	2.8	1.0	1.6	0.8	1.0	0.3	0.2	-1.0	-1.7	0.7
16.....	2.0	1.5	3.0	1.0	1.5	0.7	0.9	0.3	0.2	-1.0	-1.7	0.6
17.....	2.8	1.4	2.9	1.0	1.4	0.7	0.9	0.3	0.2	-1.0	-1.7	0.6
18.....	3.0	1.3	2.8	1.0	1.5	0.7	0.6	0.6	0.2	-1.0	-1.7	0.6
19.....	2.6	1.1	2.8	1.0	1.4	0.6	0.6	0.6	0.2	-1.0	-1.7	0.5
20.....	2.2	1.3	2.6	1.0	1.4	0.6	0.6	1.0	0.2	-1.4	-1.7	0.5
21.....	2.2	1.4	2.5	1.0	1.3	0.6	0.6	1.0	0.2	-1.5	-1.6	0.5
22.....	2.5	2.0	2.3	1.0	1.2	0.6	0.6	1.0	0.2	-1.5	-1.5	0.5
23.....	4.0	2.4	6.0	1.0	1.2	0.6	0.6	1.0	0.2	-1.5	-1.0	0.5
24.....	3.8	3.4	8.6	1.0	1.2	0.6	0.6	1.0	0.2	-1.6	-0.8	0.6
25.....	3.0	2.8	6.0	1.0	1.0	0.6	0.6	0.9	0.2	-1.6	-0.7	0.6
26.....	2.8	2.6	4.8	1.6	1.0	0.6	0.6	0.5	0.2	-1.6	-0.7	1.0
27.....	2.0	2.5	11.8	2.6	1.0	0.6	0.4	0.4	0.2	-1.7	-0.7	1.9
28.....	1.7	2.4	7.0	3.6	1.0	0.6	0.3	0.3	0.2	-1.7	-0.7	2.0
29.....	2.4	2.2	4.0	4.5	1.0	0.6	0.3	0.3	0.2	-1.7	-0.5	2.3
30.....	1.5		3.3	4.0	1.0	1.0	0.3	0.3	0.2	-1.7	-0.5	1.8
31.....	1.4		2.8		1.6		0.3	0.3		-1.7		1.6
<b>Means.</b>	<b>2.1</b>	<b>1.9</b>	<b>3.9</b>	<b>1.6</b>	<b>1.7</b>	<b>0.9</b>	<b>0.8</b>	<b>0.5</b>	<b>0.2</b>	<b>-0.8</b>	<b>-1.4</b>	<b>0.7</b>

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—KENTUCKY RIVER, HIGHBRIDGE, KY.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....					12.1	10.7	10.2	9.1	10.0	9.8	9.0	9.7
2.....					11.6	10.5	10.0	9.1	10.7	10.2	9.0	9.6
3.....					11.3	10.4	9.9	9.1	12.7	10.0	9.1	9.7
4.....					11.0	10.2	10.0	9.1	12.1	9.9	9.3	9.8
5.....					10.8	10.0	10.5	8.9	10.9	9.5	9.0	9.8
6.....					10.6	10.0	10.4	9.0	10.3	9.4	9.0	9.4
7.....					10.5	10.4	11.0	9.0	10.0	9.2	9.0	9.6
8.....					10.4	10.5	11.3	9.0	9.8	9.2	9.1	9.6
9.....					10.4	11.2	10.8	8.9	9.6	9.1	9.1	9.5
10.....				11.8	10.5	11.5	10.3	8.9	9.5	8.8	9.3	9.9
11.....				11.5	10.5	11.0	9.9	8.9	9.5	8.8	9.3	10.6
12.....				11.2	10.4	10.6	9.8	9.4	9.5	9.0	9.3	10.0
13.....				11.1	10.4	10.4	9.7	9.8	9.5	8.8	9.0	9.9
14.....				11.0	10.4	10.6	9.6	9.9	9.5	8.7	9.2	11.0
15.....				11.0	10.2	11.0	9.5	12.3	9.7	9.0	9.0	16.0
16.....				11.0	10.1	11.6	9.4	12.3	10.2	8.9	8.9	18.5
17.....				11.0	10.0	11.5	9.4	12.0	11.5	8.8	8.9	19.9
18.....				11.0	9.9	11.6	9.5	12.0	16.0	8.6	8.7	17.2
19.....				12.6	10.0	12.2	9.3	11.6	18.0	8.2	8.8	13.1
20.....				20.7	10.0	12.3	9.4	11.1	17.2	8.2	8.9	11.0
21.....				22.6	10.3	12.0	9.2	10.8	14.0	9.1	8.7	10.5
22.....				24.0	13.5	13.3	9.1	10.5	11.7	9.3	8.9	10.2
23.....				22.4	17.3	12.4	8.9	10.4	10.8	9.4	9.1	10.1
24.....				22.9	18.4	12.2	9.1	10.5	10.7	9.4	9.1	10.3
25.....				19.1	16.2	11.5	9.2	10.9	10.2	9.0	8.3	10.7
26.....				18.9	13.4	11.1	9.1	10.7	10.0	9.1	9.3	12.5
27.....				18.7	12.1	11.2	9.0	10.5	9.9	9.0	9.7	12.7
28.....				17.0	11.6	10.9	9.0	10.4	9.5	9.0	9.5	14.0
29.....				14.6	11.3	10.6	9.0	10.7	9.2	9.1	9.6	16.3
30.....				13.0	11.1	10.6	9.0	10.5	9.4	9.2	9.7	16.3
31.....					11.0		9.1	10.3		8.9		18.1
Means.....				15.7	11.5	11.1	9.7	10.1	11.1	9.1	9.1	12.1
<b>1902</b>												
1.....	18.6	26.0	16.0	22.4	10.0	9.8	15.5	9.4	9.1	9.2	9.5	10.6
2.....	16.5	25.8	17.3	18.7	10.0	9.7	13.7	9.5	9.1	9.2	9.4	10.5
3.....	13.8	22.0	16.6	14.0	10.0	9.5	13.4	9.5	9.1	9.2	9.4	12.8
4.....	12.7	16.8	14.2	12.2	10.0	9.5	12.6	9.5	9.0	9.2	9.4	12.8
5.....	12.0	14.0	13.7	12.0	9.9	9.3	11.3	9.5	9.0	9.4	9.4	12.8
6.....	11.6	12.8	15.8	12.1	9.8	9.3	10.7	9.6	9.0	9.8	9.4	13.0
7.....	11.5	12.0	17.8	12.5	9.8	9.3	10.2	9.6	9.0	9.9	9.4	13.0
8.....	11.0	11.5	18.6	12.5	9.8	9.8	10.0	9.5	9.0	9.9	9.4	12.6
9.....	10.9	11.3	19.2	12.0	9.9	9.8	9.9	9.3	9.0	9.6	9.4	12.4
10.....	10.8	11.0	19.3	11.5	10.0	9.9	9.7	9.3	9.0	9.5	9.4	11.9
11.....	10.6	10.5	18.7	11.5	10.0	10.0	9.8	9.4	9.0	9.5	9.4	11.1
12.....	10.5	10.4	16.2	11.4	9.9	9.9	9.7	9.4	9.0	9.9	9.4	11.5
13.....	10.3	10.4	16.1	11.3	9.8	9.6	9.5	9.3	8.9	9.9	9.4	18.0
14.....	10.2	10.3	14.8	10.9	9.8	9.6	9.5	9.3	9.0	9.6	9.4	16.5
15.....	10.0	10.3	14.0	10.8	9.6	9.5	9.5	9.2	9.0	10.2	9.4	17.3
16.....	9.8	10.2	13.8	10.8	9.6	9.5	9.5	9.5	9.0	10.2	9.4	26.7
17.....	9.7	10.1	14.5	10.6	9.5	9.5	9.4	9.4	9.0	10.1	9.4	22.2
18.....	9.8	10.1	15.7	10.6	9.5	9.5	9.4	9.3	9.0	10.0	9.6	21.0
19.....	9.8	10.0	15.5	10.4	9.4	9.6	9.3	9.5	9.0	10.0	9.9	18.5
20.....	9.8	9.9	14.0	10.4	9.4	9.5	10.0	9.4	9.0	10.0	9.9	14.7
21.....	9.9	9.9	12.9	10.3	9.5	9.5	9.8	9.9	9.0	9.7	9.8	13.8
22.....	10.3	9.9	12.3	10.1	9.8	9.5	9.5	9.7	9.0	9.7	9.9	14.4
23.....	10.0	10.0	11.7	10.1	10.0	9.5	9.4	9.4	9.0	9.5	10.0	12.7
24.....	12.0	10.0	11.3	10.1	10.8	9.5	9.4	9.2	9.0	9.5	10.1	11.9
25.....	12.2	10.2	11.1	9.9	10.7	10.7	9.4	9.2	9.0	9.5	10.5	11.5
26.....	12.9	10.4	10.8	9.9	10.7	10.0	9.3	9.2	9.0	9.5	11.5	11.0
27.....	18.7	13.1	10.7	9.9	10.7	10.3	9.2	9.2	9.1	9.5	14.4	10.8
28.....	19.2	13.9	10.6	9.9	10.2	11.6	9.2	9.4	9.1	9.5	13.9	10.6
29.....	20.5		15.5	9.9	10.0	13.4	9.4	9.4	9.1	9.5	12.3	10.5
30.....	20.0		19.3	9.9	9.9	14.4	9.9	9.3	9.1	9.5	11.0	11.5
31.....	26.5		23.1		9.9		9.5	9.3		9.5		12.4
Means.....	13.3	12.7	15.2	11.6	10.0	10.0	10.2	9.4	9.0	9.7	10.1	13.9

## OHIO RIVER SYSTEM—KENTUCKY RIVER, HIGHBRIDGE, KY.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	12.4	11.2	19.7	13.4	11.1	9.6	9.5	9.6	10.5	8.8	8.9	9.2
2.....	12.3	11.8	22.0	12.8	11.0	9.8	9.5	10.0	10.0	8.8	8.9	8.4
3.....	14.8	11.6	23.4	12.4	11.2	9.9	9.5	10.0	9.8	8.8	8.9	8.9
4.....	14.9	15.2	21.1	12.1	11.0	9.8	9.4	10.4	9.6	8.8	8.9	8.9
5.....	14.6	19.0	15.6	12.6	10.8	9.7	9.1	10.4	9.4	8.8	9.0	8.9
6.....	13.6	19.3	13.5	13.0	10.6	9.8	9.5	10.5	9.3	8.8	9.0	9.0
7.....	13.0	18.0	13.8	12.6	10.5	11.2	9.4	10.2	9.3	8.8	8.8	9.0
8.....	12.5	14.7	14.4	12.6	10.5	12.2	9.2	9.8	9.3	8.9	8.8	9.0
9.....	11.9	13.0	14.7	17.7	10.2	12.5	9.2	9.6	9.1	9.9	8.8	9.0
10.....	11.6	12.1	15.6	19.5	10.2	11.8	9.2	9.4	9.0	9.2	8.7	9.0
11.....	11.1	11.7	17.0	18.6	10.1	10.8	9.2	9.5	9.0	9.4	8.7	9.0
12.....	12.0	12.7	16.9	15.5	10.0	10.4	9.1	9.2	8.9	9.4	8.7	9.0
13.....	12.0	13.5	16.8	14.3	9.9	10.0	9.1	9.4	8.9	9.3	8.7	9.0
14.....	12.8	13.7	15.8	15.5	9.8	9.8	9.4	9.0	8.9	9.3	8.7	9.0
15.....	12.6	13.8	14.6	17.9	9.8	9.6	9.5	9.3	9.0	9.2	8.7	9.0
16.....	12.0	23.7	13.4	18.9	9.7	9.5	9.4	9.3	9.0	9.1	8.7	9.0
17.....	11.8	23.5	14.6	17.4	9.6	9.5	9.2	9.0	9.0	9.1	9.6	9.0
18.....	11.5	23.7	14.1	15.3	9.6	9.5	9.1	9.0	8.9	9.1	10.2	9.0
19.....	11.0	23.3	12.7	14.4	9.6	9.4	9.1	9.4	8.9	9.1	9.6	9.0
20.....	10.7	19.1	12.0	15.2	9.6	9.3	9.0	9.4	8.8	9.0	10.2	9.4
21.....	10.6	14.8	12.5	15.9	9.5	9.2	9.0	9.0	8.8	9.0	10.2	9.9
22.....	10.4	13.4	12.2	16.1	9.4	9.1	9.5	9.0	8.8	8.9	10.2	10.4
23.....	10.3	13.2	12.9	15.6	9.3	9.1	9.7	9.0	8.8	8.0	9.9	10.4
24.....	10.4	13.5	13.5	14.5	9.3	9.2	9.7	9.0	8.8	8.9	9.6	10.5
25.....	10.8	13.5	15.0	13.6	9.3	9.2	9.6	9.2	8.8	8.9	9.5	11.6
26.....	11.0	13.2	15.0	13.5	9.2	9.1	9.4	9.0	8.8	8.9	9.5	11.7
27.....	11.5	13.1	13.8	13.2	9.2	9.1	9.3	9.4	8.8	8.9	9.4	12.0
28.....	11.8	18.5	12.6	12.9	9.2	9.2	9.3	9.0	8.8	8.9	9.4	11.9
29.....	11.8		12.0	12.6	9.2	9.2	9.0	9.0	8.8	8.9	9.3	11.1
30.....	11.6		12.0	12.2	9.2	9.3	9.2	9.2	8.8	8.9	9.2	10.9
31.....	11.4		14.3		9.5		9.2	9.4		8.9		10.4
<b>Means.</b>	12.0	15.6	15.1	14.7	9.9	9.9	9.3	9.4	9.1	9.0	9.2	9.7
<b>1904</b>												
1.....	10.2	9.9	10.9	12.0	12.9	13.1	9.6	9.2	9.2	8.7	8.3	8.1
2.....	10.0	9.8	10.8	11.5	12.4	12.7	9.6	9.3	9.2	8.6	8.3	8.1
3.....	10.4	9.7	10.6	11.1	11.9	11.7	10.0	9.3	9.2	8.6	8.3	8.0
4.....	10.8	9.6	11.0	10.8	11.5	10.9	9.9	9.3	9.2	8.6	8.3	8.0
5.....	10.8	9.6	11.5	10.6	11.1	10.5	9.7	9.7	9.0	8.5	8.3	8.0
6.....	10.5	9.7	11.5	10.4	11.1	10.4	9.6	9.3	8.9	8.5	8.3	8.0
7.....	10.2	9.7	11.5	10.4	11.1	10.4	9.4	9.4	8.9	8.5	8.3	8.0
8.....	10.2	11.3	13.9	10.3	10.9	10.2	9.4	9.3	8.9	8.5	8.3	8.0
9.....	10.2	11.6	15.3	10.2	10.7	10.1	9.3	8.9	8.9	8.4	8.3	8.0
10.....	10.2	11.6	14.4	10.2	10.8	10.0	9.5	8.9	8.9	8.3	8.3	8.0
11.....	10.0	11.1	12.9	10.2	10.8	9.8	9.5	9.3	8.9	8.3	8.1	8.1
12.....	9.9	11.0	12.2	10.1	10.7	9.6	9.5	9.4	8.9	8.2	8.1	8.2
13.....	10.1	10.6	10.8	10.0	10.6	9.5	9.9	9.3	8.9	9.0	8.1	8.2
14.....	10.6	10.3	11.5	9.9	10.5	9.5	10.0	9.3	8.9	9.6	8.1	8.2
15.....	10.7	10.2	11.5	9.9	10.3	9.4	9.9	9.3	8.9	9.4	8.1	9.0
16.....	10.5	10.2	11.9	9.9	10.3	9.4	9.8	9.3	8.9	9.1	8.1	9.1
17.....	11.4	10.1	11.7	9.8	10.3	9.3	9.7	9.3	8.8	9.0	8.1	8.9
18.....	11.6	10.0	11.7	9.8	10.2	9.3	9.6	9.3	8.8	8.8	8.1	8.8
19.....	11.4	9.9	11.5	9.8	10.1	9.3	9.5	9.3	8.8	8.7	8.1	8.7
20.....	11.0	9.9	11.3	9.8	10.1	9.3	9.4	9.3	8.9	8.6	8.1	8.6
21.....	10.7	9.9	11.2	9.8	10.0	9.3	9.4	9.7	8.9	8.4	8.1	8.5
22.....	11.1	10.0	11.4	9.7	10.0	9.3	9.4	9.8	8.8	8.4	8.1	9.1
23.....	13.2	11.1	16.4	9.6	9.9	9.2	9.4	9.3	8.8	8.3	8.1	9.2
24.....	13.2	11.6	16.0	9.5	10.0	9.1	9.2	9.3	8.7	8.3	8.1	9.2
25.....	13.1	11.9	16.3	9.5	10.0	9.1	9.2	9.3	8.7	8.3	8.1	9.5
26.....	12.1	11.6	16.6	9.8	10.0	9.1	9.2	9.3	8.7	8.3	8.1	9.5
27.....	11.3	11.4	17.5	10.8	9.9	9.3	9.2	9.5	8.7	8.3	8.1	9.1
28.....	10.7	11.2	17.3	12.0	9.8	9.3	9.3	9.4	8.6	8.3	8.1	9.1
29.....	10.4	11.0	16.3	12.3	9.7	9.3	9.4	9.3	8.6	8.3	8.1	9.9
30.....	10.2		14.3	13.0	9.7	9.3	9.4	9.3	8.7	8.3	8.1	10.4
31.....	10.0		12.9		11.0		9.3	9.3		8.3		10.5
<b>Means.</b>	10.9	10.5	13.1	10.4	10.6	9.9	9.5	9.3	8.9	8.6	8.2	8.7

## OHIO RIVER SYSTEM—KENTUCKY RIVER, FRANKFORT, KY.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1				9.9	8.6	6.5	7.0	5.2	6.1	5.6	4.9	6.2
2				8.2	7.6	6.5	6.8	5.2	6.5	5.8	4.9	6.4
3				8.6	7.5	6.3	6.8	5.2	7.2	6.1	5.0	6.4
4				10.8	7.2	6.2	7.0	5.5	8.0	6.0	5.3	6.6
5				12.6	6.4	6.2	6.8	5.3	7.4	6.3	5.5	6.6
6				9.8	6.8	6.0	6.8	5.3	6.8	5.3	5.6	6.6
7				9.4	6.6	6.0	6.7	5.3	6.2	5.9	5.7	6.4
8				9.0	6.7	6.0	7.0	5.3	6.2	6.0	5.4	6.2
9				8.5	6.5	7.0	7.0	5.4	6.2	6.4	5.6	6.6
10				8.0	6.5	7.4	6.5	5.4	5.9	6.4	5.3	6.9
11				8.0	6.5	7.0	6.2	5.2	5.9	6.5	5.5	7.0
12				7.6	6.5	7.0	6.4	5.2	6.1	5.9	5.7	6.8
13				7.4	6.5	6.8	6.4	5.3	5.8	5.7	5.9	7.0
14				7.2	6.5	6.8	6.2	5.5	6.0	5.5	5.9	7.0
15				7.2	6.5	7.0	6.2	6.0	6.0	5.5	5.9	11.0
16				7.5	6.5	7.2	6.0	7.8	6.6	5.7	6.0	14.0
17				7.5	6.5	7.5	5.8	7.7	6.9	5.8	5.9	17.0
18				7.5	6.4	7.5	5.8	7.8	9.6	5.8	6.2	15.8
19				8.5	6.4	7.8	5.5	7.8	13.6	6.2	6.2	11.0
20				17.8	6.2	8.0	5.4	7.8	14.2	5.6	6.0	8.0
21				21.5	6.2	8.0	5.5	7.6	13.6	5.6	6.0	7.0
22				23.0	7.8	8.0	5.5	7.6	12.2	5.4	5.8	6.4
23				25.1	9.6	7.5	5.5	7.0	12.2	5.4	5.9	6.0
24				23.8	14.1	7.8	5.2	7.0	6.5	5.4	6.1	6.0
25				19.1	13.0	7.8	5.2	6.3	6.4	5.4	6.1	6.0
26				16.8	12.0	7.6	5.2	6.0	6.2	5.3	6.3	6.0
27				16.2	8.0	7.6	5.2	6.3	5.8	5.2	6.3	8.0
28				14.2	7.8	7.8	5.2	6.0	5.7	5.3	6.3	8.6
29				10.1	6.5	7.5	5.2	6.8	5.4	5.2	6.3	11.0
30				9.9	6.8	7.5	5.2	6.8	5.2	5.2	6.0	11.0
31					7.0		5.2	6.8		5.0		12.0
<b>Means.</b>				12.0	7.5	7.1	6.0	6.2	7.5	5.7	5.8	8.3
<b>1902</b>												
1	15.2	27.0	11.0	21.2	6.6	6.5	11.5	6.1	5.7	6.0	5.9	7.8
2	13.0	26.7	12.2	17.0	6.7	6.5	9.9	6.1	5.7	5.8	5.7	7.0
3	10.0	24.8	12.4	10.8	6.7	6.7	9.3	6.1	5.9	5.7	5.7	8.0
4	8.9	21.8	10.5	8.8	6.7	6.4	8.9	6.1	5.8	5.7	5.7	9.0
5	7.0	14.8	9.5	7.4	6.5	6.4	8.0	6.1	5.7	5.7	5.7	8.7
6	6.6	9.8	10.4	7.3	6.5	6.3	7.3	6.1	5.6	5.7	5.9	8.9
7	6.0	7.6	12.5	8.5	6.5	6.2	7.0	6.1	5.4	6.2	5.9	9.0
8	6.0	7.2	14.9	8.6	6.4	6.2	6.8	6.1	5.2	6.2	5.8	8.7
9	6.0	7.0	17.4	8.4	6.4	6.6	6.6	6.1	5.2	6.2	5.7	8.5
10	6.0	7.0	17.2	8.2	6.5	6.6	6.4	6.0	5.2	6.1	5.7	8.3
11	6.0	7.1	16.7	8.2	6.5	6.4	6.2	6.0	5.2	6.0	5.7	8.0
12	6.0	6.9	13.6	8.0	6.5	6.2	6.4	6.0	5.1	6.0	5.7	7.6
13	6.0	6.7	11.4	7.8	6.4	6.4	6.3	5.7	5.1	6.2	5.7	12.5
14	6.0	6.6	11.0	7.5	6.4	6.4	6.2	5.5	5.3	6.1	5.7	13.6
15	7.6	6.6	9.9	7.3	6.4	6.3	6.2	5.5	5.3	6.0	5.7	15.3
16	6.4	6.4	9.8	7.0	6.2	6.3	6.1	5.4	5.2	6.5	5.7	26.0
17	6.4	6.4	10.1	7.0	6.2	6.2	6.1	5.7	5.2	6.5	5.7	25.7
18	6.4	6.4	10.8	7.0	6.1	6.1	6.1	6.0	5.0	6.5	5.7	21.4
19	6.4	6.8	11.2	7.0	6.1	6.3	6.1	6.1	5.0	6.2	5.8	18.5
20	6.4	6.8	10.1	7.0	6.1	6.3	6.1	6.1	5.0	6.0	5.9	11.6
21	6.5	6.7	9.1	6.9	6.1	6.3	6.2	6.6	5.0	6.0	6.0	10.0
22	6.5	6.6	8.5	6.9	6.3	6.3	6.4	6.5	5.0	6.0	5.1	8.6
23	6.5	6.4	8.5	6.8	7.5	6.3	6.2	6.1	5.0	6.0	6.2	8.6
24	6.6	7.0	8.3	6.8	7.9	6.4	6.2	6.0	5.0	5.9	6.4	8.4
25	8.7	7.4	7.5	6.7	8.2	6.4	6.2	5.9	5.0	5.9	7.0	8.0
26	8.7	7.4	7.0	6.7	8.0	6.3	6.1	5.7	5.0	5.9	7.8	7.8
27	14.9	7.0	7.0	6.6	7.8	6.3	6.1	5.7	5.0	6.2	9.1	7.4
28	21.6	11.0	7.0	6.6	7.0	8.6	6.1	5.5	5.2	6.2	10.0	7.2
29	20.2		7.9	6.6	6.8	9.0	6.1	5.7	5.3	6.2	8.8	7.0
30	24.6		12.0	6.6	6.7	9.9	6.3	5.7	5.4	5.9	8.0	7.4
31	28.8		19.4		6.7		6.2	5.7		5.9		8.3
<b>Means.</b>	<b>9.7</b>	<b>10.0</b>	<b>11.1</b>	<b>8.2</b>	<b>6.7</b>	<b>6.6</b>	<b>6.8</b>	<b>5.9</b>	<b>5.3</b>	<b>6.0</b>	<b>6.3</b>	<b>10.7</b>



## OHIO RIVER SYSTEM—KENTUCKY RIVER, FRANKFORT, KY.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	8.0	8.5	16.7	9.4	8.3	6.3	5.9	5.5	6.4	5.0	5.6	6.0
2.....	7.6	8.3	19.6	9.0	8.0	6.4	6.1	5.9	6.8	5.0	5.7	5.9
3.....	8.0	8.3	21.9	8.6	7.8	6.5	6.2	6.6	6.4	5.0	5.7	5.9
4.....	10.5	9.4	21.0	8.3	7.3	6.5	6.2	6.7	6.3	5.0	5.8	5.9
5.....	12.0	14.1	14.5	8.0	7.3	6.9	6.2	6.9	6.3	5.1	5.9	5.9
6.....	9.9	16.0	9.5	8.9	7.2	6.5	5.9	6.9	6.2	5.1	5.8	5.9
7.....	9.1	15.8	9.0	8.7	7.1	6.6	5.9	6.8	5.9	5.1	5.7	5.9
8.....	8.2	11.0	10.6	8.9	7.0	7.9	5.9	6.8	5.9	5.4	5.7	5.8
9.....	8.3	9.4	10.4	11.3	6.8	8.6	5.9	6.7	5.8	5.5	5.5	5.8
10.....	8.0	8.5	10.5	13.9	6.7	8.0	5.9	6.4	5.8	5.5	5.4	5.8
11.....	7.8	8.1	12.2	16.3	6.7	7.5	5.8	6.3	5.6	5.5	5.5	5.8
12.....	8.2	8.2	12.4	12.0	6.6	7.0	5.8	6.1	5.5	5.5	5.4	5.8
13.....	8.1	9.0	12.3	11.2	6.5	6.7	5.8	6.1	5.4	5.6	5.3	5.8
14.....	8.6	9.4	11.7	10.5	6.5	6.7	5.9	6.1	5.5	6.0	5.2	5.9
15.....	8.8	9.8	11.0	12.4	6.4	6.4	5.8	6.0	5.5	6.0	5.2	5.8
16.....	8.4	20.2	9.5	15.1	6.4	6.3	6.0	6.0	5.4	5.9	5.2	5.8
17.....	8.1	24.7	9.6	14.8	6.4	6.1	6.0	6.1	5.4	5.9	5.4	5.8
18.....	8.0	23.5	10.3	11.2	6.3	6.1	5.9	6.0	5.2	5.9	6.7	5.8
19.....	7.8	23.2	9.2	10.4	6.2	6.0	5.9	5.9	5.3	5.8	6.6	5.8
20.....	7.4	21.0	8.5	10.4	6.2	6.0	5.7	6.1	5.3	5.7	6.6	5.9
21.....	7.2	12.4	8.5	11.3	6.2	6.0	5.4	6.0	5.2	5.6	6.7	6.4
22.....	7.0	9.5	8.2	11.3	6.2	5.9	5.6	5.7	5.2	5.6	6.7	6.8
23.....	7.0	9.2	8.8	11.3	6.2	5.9	6.0	5.6	5.1	5.5	6.7	6.8
24.....	7.0	9.3	9.2	10.4	6.1	5.9	6.3	5.5	5.1	5.6	6.5	6.9
25.....	7.0	9.5	9.9	9.6	6.0	5.9	6.3	5.5	5.0	5.6	6.1	7.0
26.....	7.5	9.2	10.8	9.4	6.0	5.9	6.0	5.3	5.0	5.6	6.0	8.0
27.....	7.7	9.1	9.9	9.2	6.0	5.9	6.0	5.2	5.0	5.6	6.2	8.2
28.....	8.3	11.7	9.0	8.9	6.0	5.9	5.9	5.9	5.0	5.6	6.2	8.2
29.....	8.2		8.5	8.7	5.9	5.9	5.8	6.0	5.0	5.6	6.2	7.7
30.....	8.0		8.0	8.4	5.9	5.9	5.5	6.0	5.0	5.6	6.0	7.3
31.....	7.9		9.5		6.0		5.4	5.8		5.6		6.9
<b>Means.</b>	8.2	12.4	11.3	10.6	6.6	6.5	5.9	6.1	5.6	5.5	5.9	6.4
<b>1904</b>												
1.....	6.8	6.6	7.3	8.5	8.8	8.3	6.1	5.8	5.2	4.6	5.1	4.1
2.....	6.7	6.5	7.2	8.0	8.6	8.9	6.3	6.0	5.2	4.6	5.0	4.1
3.....	6.7	6.5	7.2	7.8	8.3	8.1	6.3	6.0	4.9	4.6	5.0	4.1
4.....	6.6	6.4	7.3	7.4	7.8	7.4	6.6	6.0	4.9	4.5	5.0	4.1
5.....	7.4	6.3	7.7	7.2	7.5	7.4	6.6	6.0	5.5	4.4	5.0	4.2
6.....	7.4	6.3	7.8	7.1	7.4	6.9	6.3	6.2	5.5	4.2	5.0	4.2
7.....	6.9	7.7	8.1	7.1	7.5	6.8	6.2	6.2	5.4	3.9	4.8	4.2
8.....	6.8	7.3	8.8	6.9	7.5	6.7	6.1	6.0	5.4	3.8	4.8	4.2
9.....	6.8	7.7	10.3	6.9	7.2	6.7	6.0	5.9	5.5	3.8	4.7	4.2
10.....	6.8	7.9	10.4	6.9	7.2	6.4	6.0	5.6	5.6	3.5	4.7	4.2
11.....	6.7	7.6	9.3	6.8	7.3	6.4	6.1	5.9	5.6	3.5	4.7	4.2
12.....	6.6	7.3	8.5	6.7	7.3	6.4	6.1	6.2	5.7	3.5	4.6	4.2
13.....	6.6	7.0	8.2	6.7	7.1	6.2	6.5	6.2	5.7	3.5	4.6	4.2
14.....	7.0	7.0	7.7	6.6	7.0	6.1	6.5	6.2	5.7	3.5	4.6	4.1
15.....	7.1	6.8	7.9	6.5	7.0	6.1	6.5	6.2	5.7	5.5	4.7	4.1
16.....	7.0	6.8	8.0	6.5	6.5	6.1	6.5	5.9	5.6	5.5	4.7	4.1
17.....	7.0	6.8	8.0	6.5	6.5	6.0	6.5	6.0	5.6	5.9	4.6	4.1
18.....	7.8	6.8	8.0	6.4	6.5	6.0	6.3	5.9	5.6	5.8	4.6	4.1
19.....	7.9	6.8	7.9	6.4	6.7	6.0	6.1	5.9	5.6	5.7	4.5	4.2
20.....	7.5	6.7	7.7	6.4	6.7	6.0	6.0	6.2	5.6	5.6	4.5	4.2
21.....	7.3	6.7	7.7	6.4	6.6	6.0	6.0	6.2	5.4	5.6	4.5	4.5
22.....	8.2	7.3	7.9	6.4	6.6	5.9	6.0	6.0	5.3	5.6	4.4	4.4
23.....	9.0	7.5	10.5	6.3	6.6	5.8	6.0	6.3	5.2	5.6	4.4	5.1
24.....	9.0	7.8	11.5	6.3	6.6	5.8	6.0	6.1	5.2	5.6	4.4	5.8
25.....	9.0	8.0	11.8	6.3	6.5	6.0	5.8	5.6	5.2	5.5	4.3	5.9
26.....	8.5	8.0	13.1	6.7	6.5	6.0	5.8	5.4	5.2	5.4	4.1	6.2
27.....	7.8	7.8	13.8	7.1	6.4	6.3	5.8	5.5	5.1	5.3	4.1	7.0
28.....	7.4	7.8	13.3	7.9	6.4	6.1	5.8	5.5	4.9	5.2	4.1	6.1
29.....	7.1	7.5	12.4	8.2	6.4	6.2	6.0	5.5	4.8	5.2	4.1	6.1
30.....	6.9		10.5	8.6	6.4	6.0	6.0	5.9	4.7	5.2	4.1	6.8
31.....	6.8		9.5		6.9		6.0	5.8		5.1		7.0
<b>Means.</b>	7.3	7.1	9.2	7.0	7.0	6.5	6.2	5.9	5.4	4.8	4.6	4.8

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—WABASH RIVER, TERRE HAUTE, IND.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1												-0.6
2												-0.6
3												-0.6
4												-0.7
5												-0.7
6												-0.7
7												-0.7
8												-0.8
9												-0.8
10												-0.8
11												-0.8
12												-0.8
13												-0.8
14												-1.0
15												-1.0
16												-1.1
17												-1.1
18												-1.1
19												-1.2
20												-1.2
21												-1.2
22												-1.2
23												-1.2
24												-0.8
25												0.0
26												0.2
27												0.6
28												0.2
29												-0.2
30												-0.3
31												0.4
Mean.												-0.7

## OHIO RIVER SYSTEM—WABASH RIVER, MOUNT CARMEL, ILL.

1900	Frozen.	Frozen.										
1			6.5	6.7	4.1	4.4	13.1	5.4	3.0	2.1	1.2	9.1
2			5.4	7.2	3.8	6.5	13.4	4.6	3.0	2.3	1.9	8.1
3			5.0	7.5	3.6	10.5	13.2	4.2	3.0	2.4	2.3	7.3
4			5.5	7.8	3.4	12.5	11.5	4.0	3.0	2.4	2.4	6.0
5		2.7	6.8	7.8	3.2	13.5	9.0	3.7	3.0	2.3	2.6	5.5
6		2.8	8.0	7.8	3.2	13.9	6.8	3.5	3.2	2.2	2.6	5.0
7		2.8	12.3	7.3	3.2	14.0	5.8	3.0	3.2	2.2	2.5	4.6
8		3.4	14.9	6.6	3.2	14.0	5.3	2.8	3.2	2.2	2.4	4.3
9		5.3	16.2	6.2	3.2	13.8	5.0	2.6	2.9	3.0	2.3	4.2
10		8.8	16.9	5.7	2.9	12.8	5.1	2.4	2.4	3.7	2.2	4.0
11		11.3	17.5	5.5	3.0	11.9	5.0	2.3	2.4	3.8	2.1	4.1
12	2.5	12.2	18.0	5.0	3.0	10.9	5.1	2.2	2.4	3.5	2.1	4.1
13	3.2	12.9	18.6	4.7	3.1	9.7	4.8	2.1	2.2	3.1	2.0	4.1
14	3.8	12.6	19.0	4.6	3.3	8.8	4.3	2.1	2.2	2.9	1.9	3.9
15	4.3	12.0	19.0	4.4	3.4	8.5	4.1	3.1	1.9	2.8	1.9	3.6
16	4.8	11.0	18.6	4.2	3.1	8.5	3.9	3.0	1.9	2.7	1.9	3.3
17	4.8	11.0	18.0	4.4	2.8	8.0	3.7	3.1	1.8	2.6	1.9	3.1
18	4.8	9.0	17.4	4.7	2.7	7.2	3.5	3.3	1.8	2.5	1.8	3.0
19	4.8	8.2	16.9	4.8	2.7	6.9	3.8	4.0	1.7	2.2	1.8	3.0
20	4.6	7.2	16.4	4.8	2.7	6.7	4.1	5.0	1.7	2.0	1.8	2.9
21	5.0	6.0	15.6	4.8	2.7	5.9	4.4	5.0	1.6	2.0	3.9	2.8
22	6.0	6.0	14.3	5.8	2.7	5.7	4.6	5.1	1.6	1.9	5.4	2.8
23	6.8	5.9	12.0	6.5	2.7	6.5	4.5	4.7	1.7	1.8	6.5	2.8
24	7.5	6.4	10.2	6.9	3.8	9.1	4.1	4.4	1.8	1.7	8.0	2.8
25	7.6	7.0	9.1	6.6	4.2	11.6	4.6	4.3	1.9	1.6	8.3	2.8
26	7.1	8.0	8.4	6.0	4.0	12.4	6.0	4.0	1.9	1.5	8.8	2.8
27	6.5	7.7	7.9	5.5	3.7	12.5	7.0	3.8	1.9	1.4	9.5	2.7
28	6.0	7.0	7.2	5.1	3.4	12.4	8.6	3.8	2.0	1.3	9.7	2.7
29	5.5		6.9	4.8	3.2	12.5	8.9	3.5	2.1	1.3	9.7	2.7
30	4.2		6.5	4.5	3.1	12.7	8.0	3.4	2.1	1.2	9.6	2.8
31	Frozen.		6.2		3.4		6.5	3.1		1.2		2.9
Means.	5.3	7.8	12.3	5.8	3.2	10.1	6.4	3.6	2.3	2.3	4.0	4.0

## OHIO RIVER SYSTEM—WABASH RIVER, MOUNT CARMEL, ILL.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	2.9	2.3	3.0	13.0	7.5	3.0	7.6	1.1	1.1	0.3	0.7	0.8
2.....	2.8	2.3	3.0	12.6	7.1	3.8	6.4	1.0	1.2	0.2	0.7	0.8
3.....	2.7	2.5	3.0	11.5	6.2	4.6	5.6	0.9	1.1	0.2	0.7	0.8
4.....	2.6	3.0	3.1	9.9	5.8	4.6	5.0	0.9	0.9	0.1	0.6	0.8
5.....	2.2	3.6	3.1	8.6	5.3	4.3	4.6	0.9	0.9	0.0	0.6	0.8
6.....	2.2	4.3	3.5	8.1	4.8	3.9	4.3	0.9	0.8	0.0	0.6	0.8
7.....	2.2	4.4	4.3	8.5	4.5	3.6	4.0	0.9	0.8	0.0	0.6	0.8
8.....	2.5	4.7	4.6	9.5	4.3	3.9	3.8	0.9	0.7	0.0	0.5	0.8
9.....	2.4	4.5	4.7	10.2	4.2	4.4	3.5	0.8	0.7	0.0	0.5	0.9
10.....	2.4	4.4	5.5	10.3	4.3	4.3	3.2	0.8	0.6	0.0	0.5	0.9
11.....	2.6	4.4	10.0	9.8	4.3	4.2	3.0	0.8	0.6	0.0	0.5	0.9
12.....	3.0	4.0	13.5	9.0	4.4	3.9	2.8	0.8	0.8	0.0	0.5	0.8
13.....	6.0	3.6	15.2	8.2	4.4	3.6	2.5	0.8	0.9	0.8	0.5	0.8
14.....	7.0	3.4	16.2	7.4	4.4	3.2	2.1	0.7	0.9	1.6	0.5	2.5
15.....	7.2	3.2	16.6	6.6	4.4	3.0	2.0	0.7	1.0	2.3	0.5	4.8
16.....	7.2	3.1	16.9	6.1	4.2	3.1	1.9	0.7	1.0	2.6	0.5	7.4
17.....	6.9	3.0	17.2	5.9	4.0	3.2	1.8	0.7	0.9	2.6	0.6	8.7
18.....	6.2	3.0	17.4	6.1	3.8	3.1	1.8	0.7	0.9	2.5	0.6	7.5
19.....	5.9	3.1	17.5	8.5	3.5	3.0	1.7	0.7	0.9	2.4	0.6	4.5
20.....	5.3	3.1	17.1	11.1	3.3	3.0	1.7	0.7	0.8	2.3	0.6	Frozen.
21.....	4.8	3.5	16.3	12.1	3.1	3.1	1.6	0.7	0.8	2.1	0.6	
22.....	4.2	3.6	15.5	13.1	3.0	3.1	1.6	0.8	0.7	1.9	0.6	5.8
23.....	3.9	Frozen.	14.7	13.5	3.0	4.6	1.4	0.8	0.7	1.7	0.7	5.4
24.....	3.9	3.2	13.4	13.4	2.9	6.7	1.4	1.4	0.7	1.6	0.7	4.6
25.....	3.8	2.5	12.1	12.4	2.8	8.1	1.4	1.3	0.6	1.4	0.7	3.8
26.....	3.7	2.5	11.6	11.0	2.7	8.5	1.4	1.2	0.5	1.2	0.7	3.0
27.....	3.6	2.7	12.0	10.0	2.6	8.2	1.3	1.0	0.4	1.1	0.7	3.0
28.....	3.5	2.8	12.5	9.5	2.5	8.2	1.3	1.0	0.4	1.0	0.7	3.2
29.....	3.1		12.9	9.0	2.6	9.4	1.2	1.0	0.4	1.0	0.7	3.4
30.....	2.9		13.2	8.2	2.7	8.8	1.2	1.0	0.4	0.9	0.7	3.5
31.....	2.5		13.2		3.0		1.2	1.0		0.8		3.5
<b>Means</b>	<b>3.9</b>	<b>3.4</b>	<b>11.1</b>	<b>9.8</b>	<b>4.1</b>	<b>4.7</b>	<b>2.7</b>	<b>0.9</b>	<b>0.8</b>	<b>1.1</b>	<b>0.6</b>	<b>2.9</b>
<b>1902</b>												
1.....	3.7	Frozen.	7.1	8.7	2.5	8.0	9.0	3.1	2.2	4.0	2.5	6.1
2.....	4.0		10.9	9.8	2.5	6.5	11.0	4.0	1.9	4.0	2.4	6.0
3.....	3.8		11.5	10.5	3.7	5.2	12.0	4.4	1.8	4.0	2.3	6.2
4.....	4.0		11.8	10.5	3.7	4.9	12.8	4.0	1.8	4.5	2.3	7.6
5.....	3.9		11.6	9.6	3.6	5.2	13.5	4.0	1.8	5.2	2.2	8.7
6.....	3.7		11.3	8.7	3.5	5.0	14.0	4.2	1.8	6.4	2.2	9.5
7.....	3.1		8.5	8.0	2.6	5.2	14.3	4.4	1.8	7.5	2.2	9.8
8.....	3.0		7.0	8.3	2.3	5.8	14.2	4.4	1.7	7.9	2.1	9.9
9.....	3.0		6.2	8.6	2.9	5.8	13.7	4.6	1.7	9.0	2.3	9.2
10.....	2.9		6.7	8.4	3.1	5.4	13.0	4.8	1.7	9.0	2.6	8.1
11.....	2.8		7.5	7.6	3.1	5.8	12.8	4.9	1.6	8.4	2.8	7.0
12.....	2.7		8.2	6.5	3.0	6.2	12.4	4.4	1.6	7.2	2.9	7.0
13.....	2.5		8.6	5.7	2.9	6.2	11.0	4.0	1.5	6.1	3.0	6.7
14.....	2.4		8.8	5.0	2.8	5.8	8.6	3.8	1.5	5.4	3.0	7.5
15.....	2.3		9.0	4.6	2.6	5.5	7.0	3.5	1.5	4.7	3.0	8.9
16.....	2.3		9.2	4.3	2.4	5.2	5.9	3.3	1.5	4.2	3.1	10.7
17.....	2.3		9.4	4.0	2.2	4.9	5.2	3.4	1.4	4.0	3.2	12.5
18.....	2.3		9.4	3.8	2.1	4.7	5.0	3.5	1.4	4.0	3.3	13.8
19.....	2.2		9.5	3.4	2.0	5.0	4.8	3.6	1.3	3.9	3.4	14.3
20.....	2.1		9.5	3.2	1.9	4.9	4.6	4.0	1.3	3.8	5.2	14.7
21.....	2.1		8.9	3.1	1.8	4.8	4.4	4.2	1.2	3.7	5.8	15.2
22.....	2.0		7.9	3.0	2.0	4.4	4.7	4.5	1.2	3.6	6.2	15.8
23.....	2.0		6.9	3.0	2.2	4.0	5.8	4.7	1.1	3.5	6.3	16.5
24.....	2.0		6.0	3.0	3.7	3.6	5.9	4.5	1.1	3.5	6.3	16.9
25.....	2.0		5.4	2.8	6.6	3.1	5.6	4.2	1.0	3.4	6.3	17.0
26.....	1.9		5.0	2.8	7.8	3.1	5.0	4.0	1.0	3.2	6.3	16.9
27.....	1.9		4.6	2.7	8.7	3.1	4.8	3.5	1.2	3.0	6.9	16.5
28.....	Frozen.	4.6	4.4	2.5	9.5	3.2	4.6	3.2	2.0	2.9	7.0	16.0
29.....			4.3	2.4	10.1	3.5	4.4	3.0	3.0	2.8	6.8	15.2
30.....			5.4	2.4	9.9	5.7	3.7	2.7	3.8	2.7	6.5	13.5
31.....			7.1		9.1		3.3	2.5		2.6		12.2
<b>Means</b>	<b>2.7</b>		<b>8.0</b>	<b>5.6</b>	<b>4.1</b>	<b>5.0</b>	<b>8.3</b>	<b>3.9</b>	<b>1.6</b>	<b>4.8</b>	<b>4.0</b>	<b>11.5</b>

## OHIO RIVER SYSTEM—CUMBERLAND RIVER, BURNSIDE, KY.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	22.8	31.5	12.4	28.7	5.6	2.5	7.4	0.7	1.2	2.6	1.5	7.2
2.....	17.4	25.4	20.3	20.2	5.2	2.4	9.2	0.7	1.1	2.0	1.4	11.9
3.....	9.8	18.8	16.3	14.1	4.6	2.4	6.8	0.7	1.1	1.8	1.3	10.9
4.....	8.6	18.6	14.1	9.3	5.7	2.1	4.6	0.6	1.0	1.6	1.3	8.5
5.....	7.7	10.8	16.2	10.8	5.0	2.0	3.8	0.6	1.0	1.8	1.2	9.8
6.....	6.6	8.2	35.4	11.3	4.5	1.9	3.4	0.9	1.0	1.8	1.2	15.4
7.....	6.2	6.9	27.9	10.1	5.1	1.7	3.0	0.8	0.9	1.7	1.2	12.8
8.....	5.6	6.2	22.4	9.0	5.7	1.7	2.7	2.1	0.9	1.7	1.3	10.7
9.....	5.3	5.6	22.3	8.2	4.8	1.8	2.5	2.0	0.8	1.7	1.3	8.3
10.....	4.8	5.0	21.9	7.3	4.6	1.7	2.4	2.0	1.2	1.6	1.2	6.9
11.....	4.4	4.5	16.4	6.6	3.9	1.6	2.3	1.9	1.1	1.6	1.1	5.4
12.....	4.1	3.8	11.3	6.0	3.4	1.5	2.2	1.9	1.1	2.0	1.1	4.4
13.....	3.9	3.5	8.9	5.5	3.2	1.3	2.1	1.8	1.0	2.3	1.0	4.6
14.....	3.6	3.5	7.8	5.1	3.0	1.2	2.0	1.8	1.0	3.9	1.0	14.0
15.....	3.3	3.7	11.5	4.9	2.8	1.4	1.9	1.7	0.9	3.5	1.0	13.8
16.....	2.9	3.6	9.9	4.6	2.7	1.5	1.8	1.7	0.9	3.3	1.1	33.3
17.....	2.8	3.5	15.4	4.3	3.4	1.4	1.7	1.7	0.8	3.2	1.2	34.4
18.....	2.8	3.5	18.7	4.1	3.2	1.3	1.6	1.6	0.8	3.1	1.7	30.2
19.....	2.8	3.2	13.7	4.0	3.1	1.5	1.5	2.0	0.7	3.0	1.8	18.5
20.....	3.0	3.1	10.6	4.1	2.9	1.8	1.4	2.5	0.8	2.9	1.8	11.9
21.....	3.9	3.3	8.5	4.2	3.0	2.2	1.3	2.3	0.9	2.7	1.7	9.0
22.....	5.2	3.5	7.8	4.1	3.5	1.8	1.2	1.9	0.8	2.6	1.6	13.6
23.....	6.9	3.5	6.7	4.0	3.0	1.6	1.1	1.7	0.8	2.5	1.8	12.2
24.....	8.1	3.6	5.9	3.9	2.6	1.5	1.0	1.6	0.8	2.4	1.8	9.5
25.....	7.1	4.1	5.0	3.8	2.6	1.4	1.0	1.5	1.0	2.3	3.8	7.8
26.....	7.1	4.6	4.9	3.5	2.9	1.4	0.9	1.4	1.2	2.0	18.4	6.7
27.....	10.6	4.8	4.8	3.3	2.8	1.6	0.8	1.4	1.3	1.8	23.6	6.0
28.....	34.5	7.3	4.7	3.1	2.7	2.5	0.8	1.3	1.2	1.7	12.5	5.5
29.....	29.6	.....	54.7	3.6	2.8	2.7	0.8	1.3	1.1	1.6	8.1	5.2
30.....	40.0	.....	58.9	4.0	2.7	2.8	0.7	1.2	1.0	1.6	5.0	4.6
31.....	41.3	.....	39.5	.....	2.6	.....	0.8	1.2	.....	1.5	.....	4.1
Means.	10.4	7.4	17.3	7.2	3.7	1.8	2.4	1.5	1.0	2.3	3.5	11.5
<b>1903</b>												
1.....	6.3	5.2	55.1	12.8	6.0	5.8	2.8	3.3	2.0	0.3	1.0	2.0
2.....	5.9	5.9	40.5	10.2	5.2	5.8	2.6	3.5	1.9	0.3	1.0	1.9
3.....	8.1	5.5	30.4	9.0	4.8	5.9	2.3	3.6	1.9	0.2	1.1	1.8
4.....	13.6	9.4	18.5	11.3	4.6	10.1	2.0	3.4	1.8	0.2	1.2	1.8
5.....	12.9	38.8	14.6	11.0	4.0	9.2	1.9	3.0	1.7	0.2	1.8	1.7
6.....	12.1	25.6	9.6	9.4	3.5	5.2	1.8	5.0	1.6	0.2	2.0	1.7
7.....	8.1	16.8	10.4	8.7	3.1	6.1	1.7	5.2	1.5	0.3	1.6	1.6
8.....	7.3	12.0	18.8	13.1	3.0	5.9	1.6	4.8	1.4	1.1	1.5	1.6
9.....	5.9	10.4	28.4	42.6	2.8	8.9	2.6	3.6	1.3	2.3	1.4	1.6
10.....	5.6	8.5	28.8	31.9	2.7	7.4	2.2	2.7	1.2	2.5	1.3	1.6
11.....	6.1	10.1	26.7	21.4	2.6	6.3	1.9	2.5	1.1	2.1	1.3	1.5
12.....	7.4	12.4	22.8	13.3	2.5	3.9	1.7	2.3	1.0	1.9	1.4	1.5
13.....	14.9	14.1	18.7	10.7	2.4	3.1	1.6	2.2	0.9	1.8	1.6	1.5
14.....	11.7	12.6	15.4	40.7	2.5	2.8	1.5	5.4	0.8	1.7	1.6	1.4
15.....	9.3	12.0	11.8	29.4	2.3	2.7	1.4	5.2	0.7	1.6	1.5	1.4
16.....	8.2	35.5	9.7	19.2	2.8	2.6	1.3	4.9	0.7	1.6	1.4	1.4
17.....	7.5	39.9	10.6	12.6	2.8	2.5	2.0	4.5	0.7	1.5	1.5	1.3
18.....	6.7	32.2	9.2	10.3	2.7	2.4	2.3	4.1	0.6	1.5	4.2	1.3
19.....	6.1	25.4	8.3	10.0	2.6	2.3	2.8	3.9	0.6	1.4	4.8	1.3
20.....	5.0	16.9	8.1	11.7	2.5	2.2	3.0	3.7	0.5	1.4	4.2	6.2
21.....	4.3	12.4	6.4	13.4	2.4	2.1	2.8	3.5	0.5	1.3	4.0	17.3
22.....	3.5	10.5	9.9	17.2	2.3	2.0	2.3	3.3	0.5	1.3	3.5	12.6
23.....	3.3	9.2	12.0	14.6	2.2	1.9	2.1	3.1	0.4	1.2	3.1	8.5
24.....	3.2	8.7	14.1	12.7	2.1	1.8	2.0	2.8	0.4	1.2	2.8	7.1
25.....	4.0	8.6	18.5	10.8	2.0	1.7	1.9	2.7	0.4	1.2	2.6	7.4
26.....	4.8	8.5	15.2	10.1	1.9	1.6	1.8	2.6	0.4	1.1	2.5	8.7
27.....	6.1	8.4	11.6	9.2	1.9	1.7	1.7	2.5	0.4	1.1	2.4	13.4
28.....	6.6	14.4	9.1	8.5	2.0	2.0	1.6	2.4	0.4	1.1	2.3	9.9
29.....	6.0	.....	7.1	7.6	2.1	2.4	1.5	2.3	0.3	1.0	2.2	7.3
30.....	5.8	.....	6.2	6.7	2.6	2.6	1.4	2.2	0.3	1.0	2.1	6.2
31.....	5.6	.....	8.4	.....	4.0	.....	1.6	2.1	.....	1.0	.....	4.0
Means.	7.2	15.4	16.6	15.0	2.9	4.0	2.0	3.4	0.9	1.2	2.2	4.5

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1	3.5	3.2	5.5	6.1	7.4	5.8	3.2	0.4	0.4	0.3	-0.2	1.3
2	4.8	3.0	5.0	5.4	6.5	15.8	2.7	0.4	0.3	0.3	-0.2	1.2
3	9.0	2.9	4.6	5.1	6.3	10.9	2.2	0.4	0.3	0.2	-0.2	1.2
4	8.2	2.8	5.6	4.7	6.0	7.4	1.8	0.3	0.2	0.2	-0.2	1.2
5	7.4	2.5	5.4	4.4	6.6	6.2	1.5	0.3	0.2	0.2	0.0	1.5
6	5.2	2.4	5.0	3.6	5.5	5.0	1.3	0.3	0.2	0.1	0.8	2.2
7	4.1	2.4	6.1	3.4	4.8	4.6	0.9	0.3	0.1	0.1	1.0	2.8
8	3.5	3.0	24.5	3.7	4.2	5.3	0.7	0.2	0.1	0.1	1.1	5.0
9	3.0	5.2	19.7	3.7	4.6	4.8	0.6	0.2	0.1	0.1	1.2	3.5
10	2.8	4.5	15.9	3.5	5.4	4.5	0.5	0.2	0.0	0.0	1.2	3.6
11	2.6	4.8	11.4	3.3	7.3	3.6	0.4	0.4	0.0	0.0	1.1	4.0
12	2.8	5.0	8.5	3.0	6.2	3.3	0.4	0.3	0.0	0.1	1.1	3.8
13	4.0	4.8	7.1	2.8	5.0	2.9	0.3	0.3	0.1	0.2	1.1	3.5
14	4.1	4.2	6.6	2.6	5.5	2.6	0.3	0.3	0.0	0.2	1.2	3.0
15	4.3	3.5	7.6	2.5	5.8	1.7	0.2	0.6	0.2	0.2	1.2	2.0
16	3.9	3.1	8.7	2.4	5.9	1.1	0.2	1.1	0.2	0.2	1.2	1.8
17	4.5	2.9	9.0	2.4	4.9	0.8	0.5	0.8	0.3	0.2	1.1	1.6
18	5.0	2.8	7.1	2.3	4.3	0.6	1.2	0.6	0.3	0.1	1.1	1.4
19	4.8	2.7	7.4	2.3	4.1	0.5	1.0	0.5	0.3	0.1	1.1	1.3
20	4.3	2.6	7.6	2.3	3.3	0.8	0.9	0.4	0.4	0.1	1.1	1.2
21	4.2	2.6	8.4	2.4	3.6	1.0	0.8	3.6	0.0	0.1	1.0	1.2
22	4.1	2.8	14.6	2.4	3.3	2.9	0.8	1.3	0.0	0.1	1.0	1.1
23	19.2	5.6	16.6	2.4	2.9	2.6	0.7	0.9	0.1	0.1	1.5	1.1
24	20.4	5.4	28.6	3.0	2.6	1.7	0.7	0.8	0.1	0.0	1.5	1.1
25	16.2	5.2	22.6	3.1	2.4	1.5	0.6	0.7	0.1	0.0	1.4	2.8
26	10.6	5.0	19.4	3.5	2.3	1.3	0.5	0.6	0.1	0.0	1.4	6.7
27	7.3	4.9	31.4	5.5	2.2	1.2	0.5	0.6	0.1	0.0	1.4	6.7
28	6.3	6.5	28.1	6.6	2.0	2.5	0.8	0.5	0.2	0.0	1.3	8.9
29	5.5	6.3	20.3	6.7	1.9	2.7	0.7	0.5	0.2	-0.1	1.3	10.1
30	4.9		12.8	6.4	3.0	3.1	0.5	0.5	0.2	-0.1	1.3	9.2
31	4.0		8.2		3.7		0.5	0.4		-0.2		6.0
Means	6.3	3.9	12.6	3.7	4.5	3.6	0.9	0.6	0.2	0.1	1.0	3.3

[illegible]

## OHIO RIVER SYSTEM—CUMBERLAND RIVER, CELINA, TENN.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1901												
1.....	6.0	5.2	8.2	13.3	9.2	9.2	3.8	1.3	1.2	0.4	0.0	0.8
2.....	5.4	4.7	7.8	11.0	9.5	10.4	4.1	1.4	1.1	0.4	0.0	0.8
3.....	9.7	4.4	7.0	9.5	8.9	14.0	3.9	1.3	1.0	0.5	0.0	0.9
4.....	9.8	4.1	6.6	8.5	11.8	13.3	3.8	1.3	1.0	0.4	0.0	0.9
5.....	12.0	3.7	6.6	7.6	10.5	10.3	3.1	1.6	0.9	0.4	0.2	1.0
6.....	9.6	3.4	6.7	6.7	9.3	9.4	3.0	1.4	0.9	0.4	0.2	1.1
7.....	7.6	3.3	10.9	6.2	8.3	9.4	2.3	1.2	0.8	0.4	0.2	1.2
8.....	6.3	3.3	13.1	5.8	8.0	10.9	2.1	1.3	0.8	0.3	0.6	1.4
9.....	5.6	3.8	20.0	5.7	8.5	9.2	2.1	1.3	0.8	0.3	0.6	3.8
10.....	5.0	6.4	22.0	5.6	8.9	8.3	1.9	1.3	0.8	0.2	0.4	5.0
11.....	4.8	6.9	18.5	5.5	8.7	7.3	1.6	1.5	0.8	0.4	0.7	4.0
12.....	4.4	6.3	14.2	5.3	9.8	6.1	1.6	1.5	0.8	0.5	0.6	3.6
13.....	4.6	6.0	11.4	4.9	8.9	5.0	2.3	1.5	0.7	0.5	0.7	3.2
14.....	5.4	5.3	10.1	4.7	7.9	4.3	2.0	1.4	0.7	0.3	0.7	3.1
15.....	5.9	5.7	9.7	4.5	7.2	3.7	1.8	1.5	0.6	0.3	0.6	3.3
16.....	6.0	4.4	9.6	4.3	7.2	3.2	2.2	1.6	0.6	0.2	0.6	3.1
17.....	8.3	4.1	10.3	4.2	7.7	2.8	2.2	1.5	0.6	0.0	0.5	2.9
18.....	9.5	3.9	10.5	4.2	7.5	2.5	2.0	1.8	0.5	0.0	0.4	2.5
19.....	10.2	3.8	10.2	4.2	6.8	2.3	2.0	1.7	0.5	0.0	0.4	2.2
20.....	9.9	3.6	10.1	4.2	6.1	2.2	1.8	1.5	0.5	0.0	0.4	2.0
21.....	8.8	3.5	11.1	4.4	5.7	2.1	1.6	1.7	0.6	0.0	0.4	1.8
22.....	8.2	3.7	16.3	4.7	5.7	2.1	1.6	2.7	0.6	0.0	0.4	1.7
23.....	12.2	4.7	19.0	5.2	5.3	2.3	1.8	4.3	0.5	0.0	0.4	1.6
24.....	15.6	5.8	23.2	4.8	4.7	2.0	1.6	3.3	0.4	0.0	0.4	1.6
25.....	20.2	7.4	26.6	4.9	4.2	2.2	1.5	2.7	0.4	0.0	0.4	2.0
26.....	17.7	8.6	29.3	5.4	3.8	1.9	1.5	2.3	0.4	0.0	0.5	3.3
27.....	13.2	8.3	33.2	6.2	3.5	2.4	1.4	2.1	0.3	0.0	0.4	4.5
28.....	9.8	7.8	31.7	7.2	3.3	3.3	1.6	1.9	0.5	0.0	0.4	12.3
29.....	7.8	7.3	29.9	8.5	3.2	3.5	1.7	1.6	0.5	0.0	0.5	11.7
30.....	6.6		25.5	8.9	3.2	3.2	1.6	1.4	0.4	0.0	0.6	13.4
31.....	5.7		17.9		4.8		1.4	1.2		0.0		12.4
Means.	8.8	5.1	15.7	6.2	7.0	5.6	2.2	1.7	0.7	0.2	0.4	3.6

## OHIO RIVER SYSTEM—CUMBERLAND RIVER, CARTHAGE, TENN.

1900												
1.....	3.8	3.5	11.1	7.8	6.5	1.7	14.8	10.0	1.7	1.4	1.4	28.4
2.....	2.9	3.1	10.0	7.0	5.7	1.8	12.6	8.3	1.8	1.6	1.4	18.3
3.....	2.3	2.9	10.5	6.5	5.0	1.8	9.5	6.5	1.4	1.5	1.2	9.6
4.....	2.4	2.7	10.8	6.6	4.5	2.0	7.4	4.9	1.4	1.2	1.0	6.4
5.....	2.2	3.0	11.0	6.8	4.0	2.0	6.8	3.9	1.2	1.1	0.8	5.5
6.....	2.4	3.2	10.7	7.9	3.8	2.5	5.8	3.1	0.9	0.9	0.9	5.2
7.....	2.5	3.6	11.2	7.0	3.7	2.8	4.8	2.9	0.8	0.9	0.8	6.0
8.....	2.2	7.6	12.7	6.5	3.5	5.1	4.4	2.7	0.8	1.4	1.0	8.5
9.....	2.1	16.5	13.9	5.9	3.3	6.2	4.2	2.3	0.6	1.3	0.7	9.4
10.....	2.0	19.8	13.8	5.5	3.1	7.4	3.8	2.2	0.5	1.0	0.6	8.8
11.....	2.4	22.7	13.7	5.4	3.0	6.7	3.4	2.0	0.4	0.9	0.5	7.8
12.....	6.8	22.2	13.0	5.8	3.3	6.0	3.0	1.8	0.4	0.9	0.5	6.9
13.....	9.0	20.2	11.3	6.4	2.9	5.0	2.8	1.6	0.2	1.1	0.4	6.0
14.....	10.7	18.0	9.5	6.5	3.0	4.9	2.7	1.9	0.5	1.3	0.4	5.1
15.....	12.3	18.9	8.0	5.9	3.2	5.4	2.6	1.7	1.0	1.7	0.4	4.7
16.....	11.0	20.1	6.9	5.5	3.0	6.5	2.6	1.7	1.8	1.4	0.3	4.3
17.....	8.9	19.6	6.4	5.4	3.1	6.5	2.3	1.6	1.5	1.2	0.7	4.0
18.....	6.9	15.6	5.6	7.5	3.0	9.0	2.1	1.5	0.9	1.1	0.6	3.7
19.....	6.4	11.9	5.7	12.0	2.4	11.0	2.0	1.3	0.5	1.1	0.5	3.5
20.....	10.3	8.3	8.5	12.8	2.3	9.9	1.9	1.2	0.4	0.9	0.6	3.2
21.....	13.0	7.2	12.9	10.0	2.1	7.7	2.0	1.1	0.8	0.9	14.0	3.0
22.....	12.2	7.8	15.6	15.0	2.0	5.8	1.9	1.1	1.6	0.8	13.7	3.0
23.....	11.3	9.7	17.7	14.3	1.9	4.9	2.1	1.0	1.6	0.8	8.5	3.0
24.....	11.0	11.7	17.4	16.8	2.0	4.0	3.0	1.0	2.0	0.9	16.6	3.4
25.....	9.5	13.9	14.5	12.0	1.9	3.7	2.7	1.4	1.8	0.6	20.8	3.5
26.....	7.8	14.9	12.8	10.0	2.0	3.5	2.6	1.2	1.6	0.6	25.8	3.6
27.....	6.5	14.1	11.7	8.7	1.7	4.5	6.6	1.1	1.4	0.9	29.0	3.7
28.....	5.6	12.5	10.9	7.8	1.7	11.4	8.9	0.9	1.3	0.8	30.8	3.8
29.....	4.8		10.0	6.9	1.7	15.5	14.3	0.9	1.6	0.9	31.8	3.9
30.....	4.4		9.7	6.8	1.6	15.5	14.8	1.2	1.5	0.8	31.5	3.8
31.....	3.9		8.7		1.6		12.8	1.1		1.2		4.5
Means.	6.4	12.0	11.2	8.3	3.0	6.0	5.5	2.4	1.1	1.1	7.9	6.3

## OHIO RIVER SYSTEM—CUMBERLAND RIVER, CARTHAGE, TENN.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	5.8	6.5	3.0	10.6	10.4	5.8	3.4	0.6	5.7	2.7	1.0	1.6
2.....	6.0	6.8	2.8	15.2	8.3	6.5	3.4	0.6	4.9	2.5	1.1	1.7
3.....	5.9	8.3	2.8	22.7	7.0	5.3	3.0	0.5	4.1	2.5	1.0	1.6
4.....	6.8	12.9	2.7	26.6	6.0	4.5	2.7	0.8	3.5	2.4	1.2	1.5
5.....	6.0	14.5	2.9	27.2	5.5	4.1	2.5	0.7	3.4	2.8	1.2	1.6
6.....	5.3	14.0	2.8	26.0	5.0	3.8	2.3	1.2	3.7	2.6	1.1	1.6
7.....	5.2	13.4	3.0	22.2	4.7	4.1	2.2	1.2	3.6	2.5	1.0	1.5
8.....	4.6	12.0	2.9	17.2	4.2	3.9	2.5	1.6	3.0	2.2	0.9	1.7
9.....	4.1	10.4	3.4	12.8	4.0	3.8	2.3	1.4	2.8	2.1	1.1	1.8
10.....	4.0	8.8	6.5	9.9	4.0	3.5	2.1	1.1	2.5	2.0	1.1	2.0
11.....	5.7	7.9	10.4	8.4	4.0	4.0	2.2	1.2	2.4	2.0	1.0	2.0
12.....	12.7	7.0	12.3	7.5	3.9	4.0	2.0	1.8	2.5	1.9	1.1	2.3
13.....	20.5	6.7	11.2	6.8	3.7	3.7	2.2	2.6	2.0	2.5	1.0	2.8
14.....	23.9	6.5	12.8	7.5	3.6	3.5	2.1	4.8	2.0	2.4	1.2	6.9
15.....	24.8	5.8	12.0	8.4	3.4	3.3	2.0	11.1	2.7	2.4	1.1	14.0
16.....	23.0	5.6	9.9	9.0	3.3	3.1	1.8	22.6	4.3	2.2	1.2	23.0
17.....	18.0	5.1	7.5	9.0	3.1	3.0	1.7	32.0	8.7	2.0	1.2	27.0
18.....	12.0	4.9	6.6	8.7	2.9	2.9	2.0	36.0	13.3	1.9	1.1	27.5
19.....	8.4	4.8	5.7	11.5	4.0	4.7	1.7	39.9	19.3	1.8	1.2	25.8
20.....	6.5	4.6	5.0	25.0	7.7	5.5	1.8	38.0	21.8	1.8	1.2	19.5
21.....	5.7	6.2	4.8	36.5	10.3	5.6	1.3	33.9	19.7	1.6	1.2	12.3
22.....	5.4	6.0	4.7	38.3	10.4	5.0	1.2	27.7	13.0	1.6	1.1	6.6
23.....	4.7	4.0	5.0	37.5	14.0	7.0	1.0	23.1	8.7	1.5	1.2	5.2
24.....	5.0	3.6	5.4	36.7	18.6	13.2	0.9	17.9	6.0	1.4	1.2	5.8
25.....	4.9	3.4	5.9	34.9	20.8	14.9	0.8	14.5	4.9	1.4	1.3	9.4
26.....	5.4	3.3	5.9	31.0	18.6	11.1	0.8	12.5	4.0	1.4	1.2	9.9
27.....	5.3	3.2	5.5	24.3	13.9	7.1	0.7	10.7	3.5	1.3	1.4	9.9
28.....	5.2	3.1	5.3	18.6	10.3	5.0	0.7	9.0	3.2	1.2	1.3	13.6
29.....	5.2		6.8	17.3	8.3	4.2	0.6	7.8	3.0	1.2	1.2	18.5
30.....	5.6		9.3	12.9	6.9	3.7	0.6	6.7	2.9	1.1	1.5	22.3
31.....	6.0		11.0		5.9		0.9	6.5		1.1		26.5
Means.	8.6	7.1	6.3	19.3	7.6	5.3	1.8	11.9	6.2	1.9	1.2	9.9
<b>1902</b>												
1.....	27.5	40.1	13.6	47.9	8.9	2.1	4.9	1.9	0.4	2.7	0.7	12.4
2.....	26.9	40.3	17.9	45.5	12.7	2.1	6.2	1.4	0.9	2.8	0.6	12.8
3.....	24.0	39.4	18.3	44.0	19.5	2.0	6.8	1.2	0.8	2.1	0.5	13.8
4.....	18.4	36.4	18.7	41.5	14.9	2.0	6.9	1.0	0.7	2.0	0.4	14.8
5.....	12.0	29.9	19.6	35.6	9.9	1.9	6.5	0.9	0.9	1.8	0.3	14.6
6.....	9.4	19.4	24.0	22.8	8.0	1.8	5.0	0.8	1.2	1.5	0.5	15.0
7.....	7.9	11.8	28.0	14.5	7.0	1.8	4.0	0.4	0.9	1.3	0.3	14.7
8.....	7.0	9.1	29.0	11.8	6.0	1.8	3.2	3.0	0.7	1.1	0.2	14.2
9.....	6.5	7.7	28.9	10.8	5.8	1.8	2.8	2.0	0.9	1.0	0.2	12.5
10.....	5.9	7.0	27.3	9.8	5.7	1.7	2.6	1.7	0.7	0.9	0.1	10.3
11.....	5.2	6.0	24.5	8.3	4.9	1.6	2.4	1.4	0.5	1.2	0.1	8.4
12.....	4.9	5.5	21.3	7.7	4.7	1.4	2.3	1.9	0.4	2.0	-0.1	7.0
13.....	4.6	4.8	18.4	7.0	4.0	1.4	2.1	1.7	0.3	3.8	-0.2	6.0
14.....	4.3	4.6	14.2	6.6	4.3	1.5	1.9	1.4	0.2	4.6	-0.2	6.7
15.....	3.9	4.5	12.2	5.9	3.8	1.5	1.7	1.4	0.1	4.1	-0.3	10.3
16.....	3.6	4.2	13.5	5.6	3.8	1.4	1.5	1.3	0.1	3.8	-0.4	23.3
17.....	3.4	4.1	16.0	5.3	3.7	1.3	1.3	1.7	0.1	3.4	-0.3	27.4
18.....	3.2	3.9	17.0	5.0	3.5	1.3	1.1	1.5	0.1	3.2	0.2	30.1
19.....	3.5	3.7	17.5	4.7	3.5	1.5	1.0	1.3	0.2	3.0	1.4	30.7
20.....	3.7	3.7	16.7	4.5	3.3	1.7	1.7	1.3	0.1	2.8	1.6	29.3
21.....	4.9	3.8	14.0	4.3	3.1	1.6	1.5	1.2	0.1	3.6	1.4	24.5
22.....	7.3	4.0	11.3	4.2	3.1	1.5	1.0	1.4	-0.1	2.4	1.5	18.3
23.....	8.2	5.0	9.2	4.0	2.8	1.4	0.9	1.3	-0.1	2.2	1.4	15.8
24.....	8.0	5.8	8.1	3.8	2.7	1.6	0.8	1.5	0.1	1.7	1.4	14.5
25.....	8.4	7.0	7.0	4.0	2.6	1.5	0.7	1.3	1.0	1.5	5.2	13.0
26.....	8.7	7.9	6.6	4.0	2.5	1.6	0.7	1.2	2.0	1.4	12.2	10.9
27.....	13.2	8.8	5.8	3.7	2.4	1.9	0.7	0.9	2.0	1.3	14.4	9.0
28.....	20.0	10.0	6.2	3.6	2.3	1.8	0.6	0.8	1.8	1.2	15.8	7.5
29.....	27.9		33.5	3.8	2.3	3.8	0.7	0.7	1.5	1.1	15.0	6.7
30.....	32.5		45.0	7.0	2.2	5.0	2.4	0.6	2.0	0.9	12.3	7.9
31.....	38.2		50.4		2.2		1.7	0.5		0.8		8.4
Means.	11.7	12.1	19.2	12.9	5.4	1.8	2.5	1.4	0.7	2.2	2.0	14.5

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—CUMBERLAND RIVER, CARTHAGE, TENN.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	7.6	6.9	28.0	12.5	7.7	7.7	2.8	1.4	1.5	0.0	0.0	1.3
2.....	8.0	6.7	35.8	12.8	7.0	12.5	2.7	1.9	1.4	0.0	0.2	1.2
3.....	10.0	7.2	36.3	13.0	6.4	16.0	2.6	2.1	1.2	-0.1	0.5	1.2
4.....	11.7	12.6	35.7	12.2	5.8	16.3	2.9	2.3	1.2	-0.1	1.5	1.1
5.....	12.8	21.7	34.8	11.0	5.3	15.0	2.4	2.6	1.5	-0.1	1.9	1.1
6.....	13.5	26.8	31.7	10.8	5.0	15.4	2.3	3.4	1.4	0.0	1.5	1.1
7.....	12.8	27.5	27.7	10.5	4.7	17.0	2.2	3.8	1.4	0.2	1.5	1.0
8.....	11.3	26.9	27.4	16.3	4.4	14.1	2.5	3.9	1.2	0.8	1.2	1.0
9.....	9.7	23.9	30.3	27.5	4.1	10.5	2.2	4.1	1.1	0.7	1.0	0.9
10.....	8.3	18.7	32.9	33.3	3.9	9.8	2.0	3.8	1.0	0.5	0.8	0.9
11.....	8.5	14.9	32.8	33.0	3.7	8.6	2.2	3.3	0.9	1.2	0.7	0.8
12.....	9.2	15.2	31.7	31.5	3.5	7.0	2.3	2.9	0.7	1.0	0.7	0.8
13.....	10.5	17.7	29.9	28.0	3.4	6.5	2.7	2.6	0.6	1.1	0.8	0.8
14.....	12.6	17.8	27.2	24.8	3.3	5.2	3.1	2.4	0.6	1.0	0.9	0.7
15.....	13.7	18.2	22.6	27.6	3.1	4.5	2.7	2.7	0.5	0.9	1.0	0.7
16.....	12.0	20.1	18.3	30.4	3.0	3.9	2.4	4.1	0.5	0.9	0.9	0.7
17.....	9.9	27.6	16.5	30.9	2.8	3.5	2.3	3.9	0.4	0.8	2.4	0.7
18.....	7.9	35.5	15.4	29.1	2.7	3.1	2.8	3.2	0.4	0.8	3.5	0.7
19.....	7.0	37.4	13.7	24.1	2.6	2.8	3.0	2.8	0.4	0.7	5.0	0.6
20.....	6.1	35.9	12.0	19.3	2.4	2.7	3.1	2.7	0.3	0.6	4.0	9.0
21.....	5.5	33.1	11.4	16.8	2.4	2.6	3.0	2.7	0.2	0.5	3.9	10.5
22.....	5.0	26.9	11.5	16.4	2.3	2.5	2.7	2.6	0.2	0.5	3.6	12.2
23.....	4.6	18.7	11.7	16.5	2.2	2.4	3.0	2.5	0.2	0.4	3.3	13.4
24.....	4.4	13.4	12.7	15.5	2.1	2.3	2.8	2.4	0.2	0.4	2.9	11.5
25.....	4.3	11.9	13.8	14.1	2.0	2.2	2.5	2.3	0.1	0.2	2.5	9.3
26.....	4.8	11.3	16.8	12.3	2.1	2.1	2.1	2.0	0.1	0.1	2.3	9.5
27.....	4.9	10.8	17.0	11.1	2.2	2.0	1.9	1.8	0.1	0.0	2.1	10.0
28.....	6.4	17.8	14.4	10.1	2.0	2.0	1.8	1.7	0.0	0.0	1.8	10.8
29.....	6.8	.....	11.1	9.4	2.3	2.4	1.7	1.5	0.0	0.0	1.6	11.5
30.....	7.2	.....	9.5	8.5	2.8	2.5	1.5	1.5	0.0	0.0	1.5	9.6
31.....	7.1	.....	10.0	.....	6.8	.....	1.4	1.9	.....	0.0	.....	7.0
<b>Means.</b>	<b>8.5</b>	<b>20.1</b>	<b>22.0</b>	<b>19.0</b>	<b>3.7</b>	<b>6.8</b>	<b>2.4</b>	<b>2.7</b>	<b>0.6</b>	<b>0.4</b>	<b>1.8</b>	<b>4.6</b>
<b>1904</b>												
1.....	5.6	5.0	6.5	15.1	7.3	6.2	3.1	1.6	1.2	0.3	-0.2	0.2
2.....	5.0	4.3	6.7	10.2	7.1	10.0	3.0	1.4	1.1	0.4	-0.2	0.2
3.....	6.7	4.8	6.5	9.2	7.2	11.3	3.0	1.3	1.2	0.3	-0.2	0.2
4.....	7.5	4.2	6.1	8.5	8.7	12.2	2.9	1.2	1.0	0.3	-0.1	0.2
5.....	7.8	4.0	5.8	6.0	9.1	10.6	2.9	1.2	0.9	0.1	0.1	0.3
6.....	7.9	3.2	5.6	6.2	8.0	7.9	2.5	1.3	0.8	0.2	0.1	1.3
7.....	6.5	3.1	8.9	5.8	7.0	7.6	2.5	1.2	0.9	0.2	0.2	1.5
8.....	5.4	3.1	11.5	5.6	6.6	10.8	2.4	1.1	0.9	0.2	0.2	3.8
9.....	4.7	3.4	14.8	5.3	6.7	9.3	2.2	1.2	0.9	0.1	0.2	2.2
10.....	4.1	4.6	18.5	5.8	7.3	7.4	2.1	1.2	0.8	0.1	0.2	2.9
11.....	3.9	5.8	18.0	5.8	7.2	6.4	2.0	1.2	0.7	0.1	0.2	3.7
12.....	3.7	5.7	15.0	5.5	7.1	5.6	2.1	1.1	0.6	0.1	0.2	3.3
13.....	3.7	5.1	12.2	5.1	7.0	4.6	2.4	1.0	0.6	0.1	0.2	3.0
14.....	4.2	4.6	10.2	4.8	6.7	3.9	2.3	1.5	0.5	0.1	0.2	2.5
15.....	4.5	4.3	10.0	4.7	6.0	3.7	2.2	1.4	0.4	0.0	0.2	2.5
16.....	4.8	3.9	11.0	4.5	5.7	3.2	2.3	1.2	0.4	0.0	0.2	2.2
17.....	5.7	3.7	10.0	4.2	5.8	2.9	2.2	1.1	0.3	0.1	0.3	2.1
18.....	7.0	3.5	9.7	4.0	5.9	2.7	2.1	1.2	0.2	0.0	0.2	2.2
19.....	8.1	3.3	9.0	4.1	5.8	2.5	2.0	1.5	0.1	0.0	0.2	2.1
20.....	8.3	3.3	8.5	4.0	5.0	2.2	1.9	1.5	0.2	0.0	0.2	2.0
21.....	7.5	3.4	8.6	4.0	4.6	2.0	1.8	1.5	0.1	0.0	0.2	2.0
22.....	7.0	3.5	14.5	4.0	4.4	2.4	1.8	1.5	0.3	-0.1	0.3	1.9
23.....	10.6	3.5	19.9	4.2	4.2	2.3	1.6	1.4	0.3	-0.1	0.1	1.9
24.....	15.4	4.0	23.5	4.4	4.0	2.1	1.5	3.6	0.4	-0.1	0.1	1.9
25.....	17.0	4.8	26.9	4.3	3.6	2.2	1.5	3.0	0.1	-0.2	0.1	2.0
26.....	16.7	5.9	28.8	4.5	3.5	2.7	1.4	2.5	0.1	-0.2	0.1	2.2
27.....	13.6	7.0	33.2	5.7	3.0	2.5	1.4	2.0	0.2	-0.2	0.1	7.0
28.....	9.9	6.9	34.2	6.3	2.8	2.0	1.5	1.8	0.3	-0.2	0.1	11.0
29.....	7.3	7.2	32.4	7.0	2.8	3.5	1.5	1.7	0.2	-0.2	0.1	15.8
30.....	6.0	.....	28.8	7.0	2.8	3.2	1.4	1.6	0.2	-0.2	0.2	13.6
31.....	5.2	.....	22.5	.....	4.2	.....	1.5	1.3	.....	-0.2	.....	11.8
<b>Means.</b>	<b>7.5</b>	<b>4.5</b>	<b>15.4</b>	<b>5.9</b>	<b>5.7</b>	<b>5.2</b>	<b>2.1</b>	<b>1.5</b>	<b>0.5</b>	<b>0.0</b>	<b>0.1</b>	<b>3.5</b>



## DESCRIPTION OF RIVER GAGES, ETC.

515

## OHIO RIVER SYSTEM—CUMBERLAND RIVER, NASHVILLE, TENN.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	7.4	6.2	17.4	12.9	10.0	2.4	22.2	16.9	1.7	1.7	1.4	33.4
2.....	6.2	5.8	16.1	11.7	8.7	2.6	21.0	14.6	2.5	2.0	1.6	32.3
3.....	5.0	5.1	14.8	10.6	8.7	3.6	18.0	12.2	2.6	2.0	1.5	27.3
4.....	4.5	4.8	14.4	10.6	8.2	4.1	15.6	10.1	2.4	1.9	1.8	19.3
5.....	4.0	4.6	14.6	12.2	7.1	5.2	12.4	8.0	2.3	1.9	1.7	12.5
6.....	3.8	4.8	14.8	11.0	6.4	5.6	10.4	6.5	2.3	1.8	1.6	9.5
7.....	3.7	5.0	14.5	11.2	5.9	7.2	9.2	5.5	1.9	1.7	1.5	8.2
8.....	3.6	9.5	16.2	11.0	5.4	5.4	8.0	4.7	1.7	1.9	1.4	8.4
9.....	3.4	17.3	17.0	10.1	5.3	6.6	7.0	4.2	1.6	1.8	1.3	10.5
10.....	3.2	22.5	17.9	9.4	5.1	7.3	6.0	3.8	1.5	1.6	1.3	12.3
11.....	3.3	24.0	17.9	9.4	4.7	8.3	6.0	3.5	1.4	2.0	1.2	12.4
12.....	5.0	25.5	17.8	9.8	4.5	9.8	5.5	3.1	1.2	2.2	1.2	11.5
13.....	10.8	26.1	17.2	10.0	4.4	10.0	5.1	3.0	1.0	2.8	1.1	10.6
14.....	12.2	25.9	15.9	9.7	4.2	9.0	4.8	2.6	1.3	2.8	1.0	9.4
15.....	13.7	24.0	14.1	9.8	4.2	8.1	4.6	2.4	1.1	2.3	1.0	8.8
16.....	14.2	23.3	12.3	9.3	4.3	7.8	4.5	2.7	1.0	2.1	1.0	7.4
17.....	15.0	23.7	10.7	9.5	4.4	10.0	3.9	2.4	1.3	2.1	0.9	6.5
18.....	13.6	23.4	9.5	12.7	4.2	10.6	3.7	2.4	1.2	2.0	0.9	6.2
19.....	12.7	21.5	8.9	12.6	3.9	10.6	3.5	2.5	1.8	1.9	1.0	5.7
20.....	16.6	18.0	9.9	15.0	3.7	13.2	3.3	2.3	1.6	1.8	1.1	5.5
21.....	17.0	15.5	12.9	16.8	3.4	13.2	3.3	2.1	1.5	1.7	18.1	5.4
22.....	17.2	12.9	16.2	15.9	3.2	11.5	4.0	1.9	1.2	1.6	23.8	4.8
23.....	17.1	12.6	18.7	17.8	3.1	9.9	5.4	1.7	2.2	2.0	20.5	4.6
24.....	16.0	13.7	20.8	20.0	2.9	9.6	4.5	2.2	3.3	2.0	19.0	5.8
25.....	15.3	14.5	21.2	19.3	2.8	9.4	3.7	1.8	2.8	1.7	21.9	5.9
26.....	14.0	17.5	20.8	17.3	2.7	7.0	4.9	1.6	2.4	1.5	28.8	5.4
27.....	12.1	18.6	19.0	15.3	2.6	11.0	4.4	1.6	2.6	1.4	31.1	5.5
28.....	11.0	18.4	17.0	13.2	2.5	20.9	6.6	1.6	2.5	1.3	31.8	5.8
29.....	9.0		14.6	11.7	2.5	23.3	10.5	1.5	1.9	1.3	32.5	6.1
30.....	7.8		14.6	10.7	2.5	23.6	15.5	1.5	1.8	1.5	33.1	6.2
31.....	7.0		13.9		2.5		18.6	1.5		1.3		7.7
<b>Means.</b>	<b>9.9</b>	<b>15.9</b>	<b>15.5</b>	<b>12.6</b>	<b>4.6</b>	<b>9.6</b>	<b>8.3</b>	<b>4.3</b>	<b>1.9</b>	<b>1.9</b>	<b>9.5</b>	<b>10.4</b>
<b>1901</b>												
1.....	9.7	10.1	4.6	13.3	19.5	10.0	5.8	1.4	9.9	4.1	1.6	2.1
2.....	9.5	10.2	4.5	20.0	15.6	8.9	5.3	1.6	9.0	4.1	1.6	2.1
3.....	9.3	11.7	4.4	24.1	13.2	9.2	5.2	1.4	7.9	3.8	1.6	2.2
4.....	9.5	18.4	4.3	26.0	11.1	8.6	4.6	1.3	6.8	3.7	1.6	2.3
5.....	9.9	19.5	4.1	28.8	9.5	7.5	4.1	1.3	6.0	3.5	1.6	2.4
6.....	9.5	19.6	4.1	29.5	8.6	6.5	3.8	1.4	5.4	3.6	1.7	2.3
7.....	8.7	19.3	4.1	30.0	7.9	8.1	3.4	1.6	5.0	3.7	1.8	2.2
8.....	8.5	18.5	4.1	26.5	7.2	7.7	3.2	1.6	4.9	3.4	1.7	2.2
9.....	7.3	17.8	4.4	24.4	6.7	6.8	3.0	1.7	4.9	3.2	1.7	2.2
10.....	6.7	15.6	4.8	19.0	6.4	6.0	3.3	2.0	4.4	3.0	1.7	2.4
11.....	8.2	13.8	10.5	15.4	6.5	5.6	3.2	2.1	3.8	2.8	1.7	3.2
12.....	14.4	12.3	13.6	13.9	6.0	5.7	3.2	1.8	3.7	2.7	1.7	3.0
13.....	18.4	11.2	15.4	10.4	5.8	6.0	3.1	4.0	3.5	2.8	1.6	3.0
14.....	22.4	10.3	15.5	11.4	5.6	5.8	3.1	8.4	3.2	2.7	1.6	7.7
15.....	25.8	9.6	16.0	11.5	5.5	5.7	3.1	12.2	4.4	3.1	1.7	15.2
16.....	27.4	9.1	15.9	12.1	5.3	5.4	2.9	14.9	3.9	3.1	1.7	17.1
17.....	26.8	8.7	14.4	12.7	5.0	4.8	2.7	24.3	6.0	3.2	1.7	23.1
18.....	24.7	8.3	12.2	13.0	4.8	4.4	2.6	30.9	11.9	3.0	1.7	27.3
19.....	18.9	8.0	10.3	16.5	5.3	4.3	2.8	35.7	15.8	2.8	1.7	28.9
20.....	14.4	7.6	9.0	26.3	8.6	4.8	2.9	38.0	20.4	2.6	1.7	28.5
21.....	11.3	7.0	8.0	29.5	11.0	6.7	2.5	39.6	23.2	2.4	1.7	27.5
22.....	9.5	6.7	7.4	33.4	14.3	7.5	2.3	39.3	23.0	2.2	1.7	19.0
23.....	8.4	6.4	7.0	36.3	15.3	7.3	2.1	37.3	19.5	2.2	1.7	13.0
24.....	9.0	6.0	7.2	37.5	17.1	7.9	1.9	35.3	14.6	2.1	1.7	9.6
25.....	9.5	5.7	7.6	37.8	21.6	13.2	1.7	29.5	10.4	2.0	1.7	10.4
26.....	8.7	5.3	8.0	37.4	23.1	17.2	1.6	24.3	8.2	2.0	1.7	12.0
27.....	8.4	5.0	8.5	35.8	22.7	16.0	1.5	19.9	6.7	1.9	1.7	13.8
28.....	8.9	4.8	8.2	32.5	19.7	12.2	1.4	16.2	5.8	1.8	1.8	13.9
29.....	8.7		7.8	26.7	15.9	8.8	1.4	14.0	5.2	1.7	1.8	16.4
30.....	8.5		8.0	21.9	12.8	6.9	1.4	12.0	4.8	1.7	2.0	21.8
31.....	9.8		11.0		10.8		1.5	10.5		1.6		24.8
<b>Means.</b>	<b>12.6</b>	<b>10.9</b>	<b>8.5</b>	<b>23.8</b>	<b>11.2</b>	<b>7.8</b>	<b>2.9</b>	<b>15.0</b>	<b>8.7</b>	<b>2.8</b>	<b>1.7</b>	<b>11.7</b>

\*39.3 during day.

## OHIO RIVER SYSTEM—CUMBERLAND RIVER, NASHVILLE, TENN.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	27.4	39.0	16.8	44.0	15.4	3.6	7.6	1.7	1.6	5.5	1.6	19.4
2.....	29.1	40.3	16.9	45.4	24.0	3.5	7.2	2.8	2.5	5.4	1.6	18.0
3.....	29.4	40.3	20.7	46.0	22.2	3.3	7.7	2.6	2.1	4.6	1.5	17.2
4.....	27.9	40.8	21.7	46.0	21.9	3.2	8.4	2.2	2.5	4.3	1.4	18.6
5.....	24.3	40.1	22.5	46.1	21.6	3.0	9.0	2.1	2.3	3.3	1.5	19.2
6.....	19.1	38.2	26.0	45.2	17.0	3.0	8.8	2.0	2.1	3.0	1.5	21.5
7.....	14.9	30.8	27.8	39.7	13.5	2.8	7.8	2.0	1.9	2.5	1.5	20.5
8.....	12.1	22.6	30.1	30.2	13.8	2.8	7.3	1.8	1.8	2.2	1.4	19.6
9.....	10.6	16.0	32.1	21.4	10.4	2.6	6.4	4.2	1.9	2.1	1.4	18.7
10.....	9.6	12.7	32.3	16.6	8.8	2.5	4.4	4.1	1.7	1.9	1.4	17.4
11.....	8.7	11.1	31.6	14.5	7.9	2.5	3.5	3.7	1.5	2.0	1.5	15.8
12.....	7.9	9.8	29.6	13.2	7.8	2.9	3.3	2.2	1.4	2.6	1.4	13.7
13.....	7.3	8.8	28.2	11.8	7.2	2.4	3.1	2.0	1.3	3.2	1.4	11.4
14.....	6.9	7.6	25.2	10.7	6.9	2.3	3.1	2.2	1.2	5.1	1.3	9.4
15.....	6.3	7.1	21.5	9.8	6.7	2.3	3.0	2.1	1.1	6.8	1.3	12.8
16.....	6.0	6.9	19.0	9.1	6.6	2.2	2.7	2.1	1.1	6.4	1.3	26.5
17.....	5.7	6.6	19.6	8.5	6.6	2.1	2.3	2.2	1.0	5.8	1.3	30.3
18.....	5.3	6.2	20.6	8.1	6.4	2.1	2.2	2.1	1.0	5.2	1.4	31.2
19.....	5.3	6.0	21.3	7.7	5.6	2.0	2.0	2.1	1.2	5.1	1.4	31.3
20.....	5.4	5.9	21.6	7.4	5.1	2.0	2.1	2.1	1.2	4.4	1.5	32.8
21.....	6.0	5.8	21.2	6.9	5.2	2.1	2.5	2.0	1.1	4.1	1.8	33.3
22.....	9.9	5.9	20.5	5.8	4.8	2.2	1.9	2.0	1.0	3.6	1.9	32.4
23.....	10.7	6.0	19.2	5.7	4.7	2.2	2.2	1.9	1.0	3.4	2.1	31.2
24.....	11.7	8.8	14.3	5.6	4.6	2.2	1.9	1.8	1.1	3.1	2.1	23.2
25.....	11.9	10.5	12.3	5.6	4.4	2.0	1.8	1.9	1.5	2.8	3.6	21.0
26.....	12.4	13.1	10.9	5.9	4.2	2.1	1.7	1.9	2.6	2.4	11.8	18.4
27.....	17.5	13.0	9.9	6.0	3.9	2.4	1.6	1.8	3.2	2.1	15.2	16.2
28.....	22.7	15.0	10.1	6.2	3.6	2.5	1.6	1.9	3.1	2.0	17.5	13.8
29.....	24.8	.....	32.7	7.0	3.5	2.9	1.9	1.8	2.8	2.0	18.8	12.3
30.....	31.2	.....	43.4	9.1	3.4	6.7	2.2	1.7	2.9	1.8	19.6	13.4
31.....	35.2	.....	44.7	.....	3.3	.....	1.8	1.6	.....	1.7	.....	12.9
Means.	14.9	17.0	23.4	18.2	9.1	2.7	4.0	2.2	1.8	3.6	4.1	20.4
<b>1903</b>												
1.....	12.8	10.5	28.4	13.7	12.3	14.3	3.6	2.3	2.1	0.8	0.7	2.3
2.....	12.4	10.4	30.8	15.3	11.2	16.0	3.2	2.2	2.5	0.8	1.4	2.1
3.....	15.2	10.2	34.2	16.2	10.3	17.3	3.9	2.1	2.3	0.8	1.5	1.9
4.....	16.3	14.4	36.4	16.7	9.5	18.2	4.6	2.4	2.0	0.7	1.3	1.9
5.....	16.6	21.4	36.9	16.4	8.8	25.8	5.0	3.2	2.0	0.7	2.8	1.9
6.....	17.3	24.8	37.9	15.3	8.1	25.3	4.5	3.4	1.9	0.8	2.8	1.8
7.....	17.8	28.3	38.9	14.5	7.6	22.7	3.8	4.4	1.9	1.1	2.7	1.7
8.....	17.6	29.9	39.8	18.7	7.0	22.0	3.4	4.9	2.1	1.4	2.4	1.7
9.....	16.2	30.5	40.7	26.3	6.6	20.0	3.4	5.1	2.0	1.7	2.2	1.6
10.....	14.4	29.0	39.2	29.2	6.2	16.8	3.6	5.4	1.9	1.7	2.0	1.6
11.....	12.9	25.9	38.6	32.4	6.0	14.3	3.2	5.6	1.8	1.7	1.8	1.5
12.....	13.6	23.6	38.4	33.9	5.5	12.8	4.0	5.6	1.7	1.5	1.6	1.4
13.....	13.7	21.5	37.4	34.2	5.2	11.0	5.2	5.2	1.6	1.7	1.5	1.4
14.....	14.1	21.7	36.0	33.6	5.1	9.8	6.1	4.3	1.6	1.7	1.5	1.4
15.....	15.6	23.4	33.8	31.7	5.0	8.6	4.5	3.8	1.5	1.6	1.4	1.4
16.....	17.0	25.9	30.9	31.1	4.8	7.4	4.4	3.9	1.5	1.6	1.4	1.4
17.....	16.6	29.5	27.1	32.0	4.5	6.4	4.0	4.5	1.4	1.6	2.3	1.4
18.....	14.8	31.5	23.9	32.8	4.3	5.6	3.8	5.6	1.4	1.5	6.0	1.4
19.....	13.8	34.8	21.6	32.6	4.0	5.0	3.5	5.1	1.3	1.4	5.5	1.4
20.....	10.9	36.4	19.3	30.5	3.8	4.6	5.5	4.4	1.3	1.4	6.3	6.7
21.....	9.4	37.5	17.4	26.8	3.8	4.3	4.6	3.9	1.2	1.3	6.2	16.8
22.....	8.8	37.2	16.3	23.7	3.6	3.9	4.7	3.8	1.2	1.3	5.7	15.5
23.....	7.6	34.7	16.1	21.7	3.6	3.8	4.3	3.7	1.1	1.2	5.9	15.9
24.....	7.5	29.0	15.9	21.0	3.2	3.9	3.9	3.4	1.0	1.0	5.3	16.5
25.....	6.0	22.1	16.3	20.2	3.1	3.7	4.0	3.3	1.0	1.0	4.5	16.1
26.....	7.0	18.2	17.3	18.9	3.0	3.6	3.8	3.3	0.9	0.9	4.4	16.4
27.....	7.2	16.4	19.6	17.3	2.9	3.7	3.4	3.0	0.9	0.8	3.5	15.3
28.....	7.7	21.2	20.5	15.7	2.9	4.0	3.0	2.8	0.8	0.8	3.0	14.3
29.....	9.7	.....	19.2	14.3	3.8	4.5	2.9	2.5	0.8	0.8	2.7	14.1
30.....	10.4	.....	16.6	13.3	8.3	3.7	2.6	2.5	0.8	0.9	2.4	14.8
31.....	10.6	.....	14.3	.....	11.5	.....	2.4	2.2	.....	0.8	.....	13.8
Means.	12.6	25.0	27.7	23.3	6.0	10.8	4.0	3.8	1.5	1.2	3.1	6.7

## 517

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1904</b>												
1.....	11.5	8.6	10.1	31.9	9.5	6.9			2.3	1.0	6.6	6.8
2.....	9.4	7.6	9.8	24.1	9.8	8.4			2.1	1.1	6.6	6.9
3.....	9.4	6.9	9.7	19.2	9.8	11.7			1.9	1.2	6.7	6.9
4.....	9.7	6.3	9.4	15.4	10.5	14.0			3.2	1.1	6.7	6.9
5.....	9.4	5.8	9.1	13.2	11.4	15.2			2.1	1.0	6.8	7.0
6.....	10.5	5.4	8.7	11.7	12.4	14.4			1.8	1.0	6.7	7.0
7.....	11.0	5.0	9.8	10.4	11.9	13.1			1.7	1.0	6.8	7.4
8.....	10.4	4.9	14.3	9.6	10.9	14.8			1.6	1.0	6.8	7.4
9.....	9.0	4.9	15.7	8.8	10.7	14.7			1.7	1.2	6.9	7.5
10.....	7.6	4.9	17.8	8.5	10.2	14.0			1.6	1.0	6.9	8.3
11.....	6.7	5.7	21.2	8.4	10.0	11.8			1.5	1.5	6.9	8.1
12.....	6.1	7.2	22.5	8.6	10.2	10.0			1.4	2.8	6.9	8.9
13.....	6.0	8.0	20.7	8.3	10.0	8.7			1.4	3.7	6.9	9.0
14.....	6.0	7.6	18.3	7.8	10.3	7.5			1.4	4.6	6.8	8.7
15.....	7.2	7.2	16.0	7.4	10.0	6.4			1.5	5.3	6.8	8.5
16.....	7.0	7.0	14.4	7.1	9.1	5.5			1.4	6.0	6.8	8.3
17.....	7.1	6.0	14.6	6.8	8.4	4.9			1.3	6.5	6.8	8.3
18.....	9.0	5.6	14.3	6.8	8.3	4.4			1.2	6.6	6.9	8.3
19.....	9.7	5.3	13.6	6.4	8.3	4.3		2.2	1.2	6.6	6.9	8.3
20.....	10.0	5.1	13.0	6.2	8.1	3.6		2.2	1.7	6.6	6.9	8.1
21.....	11.4	5.0	12.4	6.1	7.5	4.1		2.2	1.2	6.6	6.9	8.0
22.....	14.3	5.1	18.1	6.0	6.9	3.7		2.2	1.3	6.6	6.9	7.8
23.....	16.8	5.3	21.4	6.0	6.3	3.4		2.3	1.2	6.6	6.9	7.7
24.....	16.6	5.3	26.1	6.0	6.0	3.5		2.3	1.1	6.6	6.9	7.8
25.....	18.0	5.6	27.9	6.4	5.7	3.4		2.8	1.0	6.6	6.9	8.3
26.....	20.0	6.4	31.3	6.7	5.4	3.3		4.4	1.0	6.6	6.9	8.9
27.....	20.5	7.9	37.3	6.9	5.0	3.2		3.9	1.1	6.6	6.9	11.4
28.....	18.7	9.6	37.2	7.3	4.6			3.3	1.1	6.6	6.8	18.4
29.....	15.6	10.1	36.9	8.0	4.2			2.9	1.1	6.6	6.8	16.7
30.....	12.6		36.2	8.7	4.2			2.6	1.0	6.6	6.8	18.5
31.....	10.0		33.9		5.0			2.5		6.5		18.8
<b>Means.</b>	11.2	6.4	19.4	9.8	8.4	8.1			1.5	4.3	6.8	9.3

[illegible]

## OHIO RIVER SYSTEM—CUMBERLAND RIVER, CLARKSVILLE, TENN.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	12.7	12.8	7.0	14.3	25.8	12.7	8.1	2.1	12.8	6.6	2.3	2.9
2.....	13.4	12.8	6.7	21.0	21.3	11.0	7.3	1.9	11.7	6.2	2.3	2.9
3.....	12.9	15.8	6.3	28.2	17.2	10.8	6.7	1.8	10.6	5.9	2.2	3.2
4.....	12.7	24.5	6.1	29.7	15.1	10.9	6.3	1.4	9.6	5.7	2.2	3.4
5.....	12.5	25.5	6.1	31.2	13.9	10.0	6.0	1.1	8.5	5.4	2.4	3.3
6.....	12.3	24.4	6.0	32.4	11.6	9.1	5.6	1.0	7.7	5.3	2.4	3.3
7.....	11.8	23.5	5.9	33.0	10.5	8.6	5.1	1.2	7.1	5.2	2.3	3.2
8.....	11.0	22.7	5.7	32.3	9.7	10.6	4.7	1.3	6.9	5.2	2.3	3.2
9.....	10.2	21.6	6.1	30.0	9.1	9.0	4.4	1.1	6.8	5.1	2.2	3.3
10.....	9.6	20.0	8.6	25.6	8.6	8.0	4.2	1.5	6.5	4.8	2.2	3.7
11.....	11.0	18.1	11.4	20.9	8.4	7.7	4.3	2.0	6.3	4.5	2.2	3.9
12.....	18.2	16.3	15.4	17.1	8.2	7.5	4.1	3.0	5.5	4.3	2.1	5.0
13.....	22.2	14.7	17.4	14.9	8.0	7.6	4.1	3.8	5.3	4.3	2.1	4.8
14.....	24.0	13.2	18.0	15.5	7.7	7.9	4.1	6.7	5.2	4.4	2.4	9.4
15.....	27.4	12.8	17.9	16.3	7.4	7.5	4.0	14.9	8.5	4.3	2.3	15.4
16.....	29.7	12.2	18.2	15.6	7.2	7.1	4.0	16.1	7.8	4.5	2.3	20.0
17.....	30.4	11.6	17.2	15.6	7.0	6.7	3.9	21.6	8.1	4.6	2.3	22.3
18.....	29.0	11.3	15.8	16.0	6.7	6.4	3.9	27.9	13.0	4.5	2.3	27.1
19.....	25.4	10.8	13.8	18.2	9.0	6.0	3.7	34.8	16.5	4.3	2.2	30.0
20.....	21.0	10.2	12.0	26.5	11.2	5.6	3.9	38.3	19.9	4.2	2.4	31.0
21.....	16.1	9.7	10.8	32.2	13.0	5.8	3.8	41.8	23.5	4.0	2.5	29.0
22.....	13.4	9.2	10.0	34.6	14.4	8.0	3.7	43.4	23.9	3.9	2.5	22.5
23.....	11.6	9.0	9.4	37.4	17.0	8.4	3.5	43.7	24.0	3.8	2.5	19.7
24.....	12.4	8.6	9.0	39.5	17.6	8.6	3.4	43.9	20.1	3.5	2.4	14.4
25.....	13.4	8.1	9.2	40.7	21.0	10.3	2.8	40.7	15.5	3.2	2.4	12.8
26.....	12.6	7.8	10.3	41.2	23.3	16.2	2.6	34.7	12.0	3.1	2.4	13.2
27.....	11.6	7.5	10.4	41.1	25.3	18.1	2.3	28.0	10.7	3.0	2.3	15.1
28.....	11.4	7.1	10.4	39.5	24.0	16.1	2.0	21.9	8.5	2.9	2.4	15.9
29.....	11.3	.....	10.0	36.0	20.6	13.6	1.9	18.2	7.3	2.8	2.5	18.0
30.....	11.4	.....	10.0	30.8	17.0	10.3	1.7	15.6	6.1	2.6	2.5	21.2
31.....	12.0	.....	11.6	.....	14.6	.....	1.9	13.8	.....	2.5	.....	25.2
<b>Means.</b>	<b>16.0</b>	<b>14.4</b>	<b>10.7</b>	<b>27.6</b>	<b>13.9</b>	<b>9.5</b>	<b>4.1</b>	<b>17.1</b>	<b>11.2</b>	<b>4.3</b>	<b>2.3</b>	<b>13.2</b>
<b>1902</b>												
1.....	28.0	45.5	22.9	49.0	21.4	5.4	8.7	3.3	1.9	5.3	2.4	20.6
2.....	30.4	46.4	23.7	49.0	32.8	5.4	9.5	3.2	1.9	7.9	2.3	21.1
3.....	34.5	47.1	23.4	49.3	32.7	5.6	9.0	4.0	2.5	7.2	2.2	20.4
4.....	34.1	47.4	24.7	50.1	31.5	5.3	9.7	3.9	3.4	6.3	2.1	21.1
5.....	29.0	47.3	27.1	50.6	29.7	5.0	10.5	3.6	3.5	5.8	2.0	22.3
6.....	25.5	47.0	29.3	.....	24.4	4.9	10.7	3.2	3.6	5.1	2.0	25.0
7.....	20.5	45.3	32.1	.....	19.9	4.7	10.4	2.8	2.8	4.5	1.9	24.0
8.....	16.4	39.0	34.9	47.6	17.3	4.4	9.5	2.9	2.6	3.9	1.8	23.2
9.....	13.9	32.5	39.9	41.4	14.9	4.3	8.4	2.6	2.5	3.5	1.8	21.9
10.....	12.3	22.5	40.5	33.1	13.0	4.1	7.1	4.6	2.4	3.2	1.6	20.6
11.....	11.3	15.7	37.7	25.5	10.9	4.0	6.0	5.4	2.1	3.0	1.2	19.2
12.....	10.5	13.9	36.5	20.7	10.3	4.0	5.5	4.4	1.8	2.8	1.2	18.1
13.....	9.8	12.6	35.4	16.2	10.1	4.1	4.7	3.6	1.3	3.7	1.3	15.1
14.....	9.3	11.5	34.2	14.4	8.7	3.9	4.5	3.0	0.4	5.2	1.2	17.2
15.....	9.2	10.7	30.2	13.3	9.4	3.7	4.4	2.9	0.1	7.1	1.2	20.1
16.....	9.1	9.9	26.3	12.4	9.4	3.6	4.2	3.3	0.1	8.4	1.2	39.6
17.....	8.9	9.6	25.1	11.6	9.2	3.7	3.8	3.1	0.2	7.9	1.1	42.3
18.....	7.9	9.3	25.0	10.9	9.1	3.5	3.4	3.0	0.2	7.4	1.1	39.8
19.....	7.1	8.9	25.2	10.5	8.6	3.2	3.1	3.0	2.2	6.9	1.3	39.5
20.....	7.6	8.7	25.3	10.2	7.9	3.1	2.9	2.9	0.8	6.4	1.4	39.0
21.....	7.8	8.7	25.2	9.6	8.1	3.0	2.6	2.8	0.6	6.0	1.9	38.8
22.....	9.0	8.7	24.2	9.3	7.4	3.0	2.5	2.8	0.3	5.6	2.1	39.2
23.....	11.9	9.4	21.8	8.9	7.1	3.0	2.5	2.8	0.3	5.2	2.3	37.5
24.....	13.2	11.2	19.2	8.7	6.6	3.1	2.9	2.7	0.9	4.7	2.9	33.0
25.....	13.8	13.8	16.6	8.4	6.8	3.0	2.8	2.5	5.2	4.3	3.3	31.8
26.....	15.2	17.1	14.6	8.4	5.9	3.0	2.5	2.5	3.9	3.9	7.9	25.7
27.....	26.0	18.0	13.8	8.3	5.0	3.5	2.2	2.3	3.9	3.6	15.6	21.6
28.....	27.3	21.2	13.4	9.3	4.8	3.4	2.1	2.3	4.4	3.3	18.3	19.2
29.....	31.6	.....	37.6	11.8	4.6	4.0	2.2	2.2	4.3	3.0	19.8	17.6
30.....	37.8	.....	46.5	16.4	4.4	4.5	2.3	2.2	4.5	2.8	20.4	17.6
31.....	43.4	.....	48.6	.....	5.6	.....	2.8	2.0	.....	2.6	.....	17.5
<b>Means.</b>	<b>18.5</b>	<b>22.8</b>	<b>28.4</b>	<b>22.0</b>	<b>12.8</b>	<b>4.0</b>	<b>5.3</b>	<b>3.1</b>	<b>2.2</b>	<b>5.0</b>	<b>4.2</b>	<b>26.1</b>

## OHIO RIVER SYSTEM—CUMBERLAND RIVER, CLARKSVILLE, TENN.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	16.7	13.3	34.5	16.8	15.2	22.4	5.8	4.0	3.3	0.2	0.5	3.7
2.....	16.4	13.0	36.0	16.8	14.1	23.3	5.5	3.9	3.0	0.2	0.7	3.5
3.....	19.6	12.7	37.8	17.2	12.9	23.5	5.3	3.6	3.3	0.1	2.2	3.3
4.....	21.9	18.5	39.6	19.0	12.2	23.8	5.2	3.4	3.3	0.1	2.2	3.0
5.....	21.4	27.7	39.8	19.0	11.3	36.6	6.2	3.4	2.9	0.1	2.0	2.8
6.....	21.3	28.8	42.3	18.4	10.6	38.0	7.0	4.2	2.7	0.1	2.2	2.8
7.....	21.4	30.9	44.4	17.3	10.3	31.1	6.3	4.7	2.5	0.3	3.9	2.5
8.....	21.3	35.8	47.1	20.2	10.2	29.0	6.0	5.7	2.4	0.5	3.7	2.4
9.....	20.4	36.5	48.8	29.2	10.0	26.4	5.6	5.7	2.6	0.8	3.5	2.3
10.....	18.7	34.6	49.3	31.3	8.5	24.1	5.3	5.6	2.6	1.0	3.3	2.1
11.....	17.1	33.0	49.6	33.6	8.1	20.6	5.0	4.6	2.5	1.1	3.0	2.0
12.....	16.0	30.8	49.0	36.0	7.7	18.0	5.0	7.1	2.3	1.2	2.7	2.0
13.....	16.9	28.1	48.0	36.2	7.5	16.1	5.2	7.3	2.1	1.0	2.4	1.9
14.....	16.6	26.4	46.7	37.8	7.7	14.1	6.4	6.9	1.9	1.0	2.1	1.9
15.....	17.4	29.0	45.0	37.5	7.4	13.1	7.8	6.3	1.8	0.9	2.0	1.9
16.....	17.9	36.6	43.3	36.2	7.1	11.8	6.5	5.9	1.6	0.8	1.9	1.9
17.....	19.5	40.1	40.8	35.8	6.9	9.6	6.0	5.7	1.3	0.8	2.6	1.9
18.....	17.8	39.0	37.4	36.3	6.5	8.6	5.8	6.5	1.0	0.7	3.4	1.8
19.....	16.6	39.3	33.6	36.8	6.2	7.9	5.9	7.1	0.9	0.7	7.2	1.8
20.....	14.6	41.3	29.8	36.2	5.9	7.3	5.6	6.9	0.8	0.6	7.3	7.3
21.....	13.0	42.2	26.4	34.3	5.9	7.0	6.9	6.7	0.7	0.6	8.0	16.9
22.....	11.9	43.0	24.4	30.9	6.0	6.5	6.5	5.6	0.6	0.5	7.6	19.4
23.....	11.0	42.7	20.8	27.5	5.6	6.2	6.4	5.4	0.6	0.5	7.4	18.8
24.....	10.3	40.7	18.5	25.6	5.4	6.0	6.0	5.1	0.5	0.5	7.4	18.0
25.....	10.0	35.7	17.7	24.5	5.0	6.0	5.6	4.9	0.5	0.4	6.8	17.9
26.....	9.8	29.7	17.7	23.3	4.8	5.9	5.5	4.6	0.5	0.4	6.0	17.7
27.....	9.7	23.0	19.1	22.0	4.5	5.9	5.4	4.4	0.4	0.4	5.5	17.7
28.....	9.9	26.1	20.8	19.8	4.4	6.0	5.0	4.2	0.4	0.4	5.0	17.7
29.....	11.3	.....	20.6	17.8	4.5	6.3	4.6	4.0	0.3	0.3	4.4	17.0
30.....	12.6	.....	19.0	16.3	8.3	6.5	4.2	3.8	0.2	0.3	4.1	17.0
31.....	13.0	.....	17.0	.....	18.3	.....	4.1	3.5	.....	0.3	.....	17.3
<b>Means.</b>	<b>15.9</b>	<b>31.4</b>	<b>34.3</b>	<b>27.0</b>	<b>8.4</b>	<b>15.6</b>	<b>5.7</b>	<b>5.2</b>	<b>1.6</b>	<b>0.5</b>	<b>4.0</b>	<b>8.0</b>
<b>1904</b>												
1.....	15.8	12.8	13.2	40.4	12.1	9.6	7.7	3.0	3.4	0.8	.....	.....
2.....	13.9	11.5	13.1	37.8	12.7	11.0	8.3	3.7	3.0	0.7	.....	.....
3.....	13.0	10.5	12.8	31.4	12.7	12.3	7.8	4.0	2.8	0.5	.....	.....
4.....	12.9	9.2	12.6	26.0	13.1	15.5	7.5	3.8	2.8	1.5	.....	.....
5.....	13.1	8.2	12.4	21.4	12.7	17.5	7.0	3.5	2.8	1.5	.....	.....
6.....	13.4	7.8	11.9	18.2	14.8	17.8	6.7	3.1	3.5	1.3	.....	-0.4
7.....	13.6	7.4	12.0	16.3	15.0	17.2	6.3	3.1	3.0	1.0	.....	-0.3
8.....	13.6	8.0	15.6	15.0	14.2	17.5	5.7	3.5	2.9	1.0	.....	1.0
9.....	12.7	7.5	18.0	13.8	13.8	17.9	6.0	3.2	2.0	1.0	.....	1.6
10.....	11.0	7.3	19.5	12.7	13.7	17.4	6.4	3.0	1.9	1.3	.....	3.2
11.....	10.2	7.0	22.7	12.3	13.2	17.0	6.5	3.0	1.6	1.5	.....	3.8
12.....	9.4	8.0	25.6	12.0	13.0	13.8	7.7	2.9	1.7	1.5	.....	4.4
13.....	8.1	11.6	25.5	11.9	13.0	12.4	8.0	3.1	1.8	.....	.....	5.7
14.....	7.9	9.7	23.8	11.5	13.1	11.2	7.3	3.4	1.5	.....	.....	4.9
15.....	8.3	9.4	21.5	11.0	13.3	11.0	6.4	3.6	1.0	.....	.....	4.5
16.....	8.7	8.9	19.3	10.7	12.7	8.0	5.5	3.5	0.9	.....	.....	4.0
17.....	10.1	8.4	18.1	7.8	11.8	7.2	5.3	3.2	0.7	.....	.....	3.7
18.....	11.4	7.9	18.0	9.5	11.2	6.6	4.7	3.0	0.5	.....	.....	3.6
19.....	12.2	7.3	17.5	9.0	11.0	6.0	4.1	3.1	0.4	.....	.....	3.6
20.....	13.2	7.2	16.9	8.7	11.0	5.7	4.0	3.0	0.4	.....	.....	3.6
21.....	14.0	7.2	16.8	8.5	10.7	5.4	5.5	3.2	1.0	.....	.....	3.2
22.....	16.5	8.3	21.5	8.4	10.0	5.7	5.0	3.0	1.2	.....	.....	2.9
23.....	24.4	9.8	26.8	8.2	9.5	5.4	4.7	2.9	1.7	.....	.....	2.6
24.....	21.9	8.4	30.6	8.2	9.1	5.1	4.6	3.2	1.0	.....	.....	2.4
25.....	21.0	8.3	32.9	8.4	8.7	5.2	4.4	3.1	0.9	.....	.....	3.0
26.....	22.7	8.3	36.4	8.9	8.0	5.2	4.2	3.3	0.8	.....	.....	5.4
27.....	23.0	9.4	43.0	11.1	8.4	5.1	4.1	5.1	1.0	.....	.....	9.8
28.....	23.0	12.0	44.0	10.9	7.8	5.7	3.7	5.0	1.0	.....	.....	21.8
29.....	22.1	13.0	43.6	11.0	7.2	7.5	3.6	4.7	0.8	.....	.....	22.6
30.....	17.8	.....	43.0	11.5	7.3	7.8	3.4	4.0	0.6	.....	.....	20.2
31.....	14.0	.....	42.1	.....	6.3	.....	3.2	3.7	.....	.....	.....	20.1
<b>Means.</b>	<b>14.6</b>	<b>9.0</b>	<b>23.6</b>	<b>14.4</b>	<b>11.3</b>	<b>10.4</b>	<b>5.7</b>	<b>3.4</b>	<b>1.6</b>	.....	.....	<b>6.2</b>

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—POWELL RIVER, TAZEWEILL, TENN.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
• 1904												
1									0.4	0.1	0.0	0.7
2									0.4	0.1	0.0	0.5
3									0.4	0.1	0.0	0.4
4									0.6	0.1	0.2	0.4
5									0.7	0.1	0.1	0.7
6									0.6	0.1	0.3	3.1
7									0.6	0.1	0.2	3.7
8									0.4	0.0	0.3	2.0
9									0.4	0.0	0.2	1.3
10									0.3	0.0	0.2	1.0
11									0.3	0.0	0.2	0.5
12									0.3	0.0	0.2	0.6
13									0.3	0.0	0.2	0.4
14									0.3	0.0	0.3	1.2
15									0.3	0.0	0.4	0.7
16									0.2	0.0	0.3	0.6
17									0.2	0.0	0.2	0.5
18									0.2	0.0	0.2	0.6
19									0.2	0.0	0.2	0.7
20									0.2	0.0	0.2	0.5
21									0.2	0.0	0.2	0.5
22									0.1	0.0	0.3	0.5
23									0.1	0.0	0.4	0.4
24									0.1	0.0	0.3	0.5
25									0.1	0.0	0.3	2.7
26									0.1	0.0	0.3	4.0
27									0.1	0.0	0.3	2.7
28									0.2	0.0	0.3	5.4
29									0.1	0.0	0.3	6.0
30									0.1	0.0	0.5	3.6
31										0.0		2.3
Means									0.3	0.0	0.2	1.6

## OHIO RIVER SYSTEM—CLINCH RIVER, SPEERS FERRY, VA.

1900												
1	0.5	0.2	1.6	1.8	0.4	0.2	0.6	0.6	0.1	-0.2	-0.7	1.2
2	0.4	0.1	6.4	1.6	0.3	0.1	0.5	0.4	-0.2	-0.4	-0.6	1.0
3	0.4	0.1	4.8	1.4	0.3	0.1	0.4	0.2	-0.3	-0.4	-0.4	0.8
4	0.3	0.2	3.2	1.4	0.4	0.3	0.4	0.2	-0.4	-0.3	-0.5	1.2
5	0.2	0.6	2.6	1.2	0.4	0.4	0.3	0.0	-0.5	-0.4	-0.5	5.5
6	0.2	0.8	2.4	1.0	0.3	0.2	0.3	-0.1	-0.5	-0.5	-0.4	4.6
7	0.4	0.7	3.2	1.0	0.4	0.1	0.2	-0.2	-0.6	-0.5	-0.5	2.5
8	0.3	1.0	3.8	0.8	0.4	0.2	0.2	-0.3	-0.6	-0.2	-0.5	1.7
9	0.3	3.2	6.3	0.7	0.3	0.1	0.1	-0.4	-0.7	-0.4	-0.4	1.4
10	0.4	3.6	4.2	0.6	0.4	0.0	0.0	-0.5	-0.7	-0.4	-0.5	1.2
11	0.8	2.4	3.0	0.5	0.3	-0.2	0.0	-0.5	-0.6	-0.5	-0.5	1.0
12	3.2	1.9	2.6	0.5	0.3	0.4	-0.2	-0.6	-0.7	-0.5	-0.6	1.0
13	3.8	7.5	1.8	0.4	0.4	0.5	-0.3	-0.5	-0.8	-0.4	-0.4	0.7
14	2.8	7.3	1.4	0.4	0.4	0.6	-0.3	-0.4	-0.4	-0.5	-0.5	0.6
15	1.9	4.2	1.3	0.3	0.3	0.4	-0.4	-0.1	0.0	-0.5	-0.5	0.6
16	1.2	3.1	1.2	0.3	0.2	0.6	-0.4	-0.2	2.0	-0.6	-0.6	0.5
17	1.0	2.0	1.0	0.4	0.2	3.8	-0.5	-0.4	1.6	-0.6	-0.4	0.4
18	0.8	1.6	0.8	0.6	0.4	4.6	-0.4	-0.4	1.4	-0.4	-0.6	0.3
19	1.0	1.2	1.0	0.5	0.3	3.5	-0.5	-0.2	0.8	-0.5	-0.7	0.3
20	1.4	1.0	8.0	0.5	0.3	2.4	-0.4	-0.3	0.2	-0.6	-0.6	0.2
21	1.3	0.9	a 12.6	0.6	0.8	1.0	-0.4	-0.1	0.2	-0.6	-0.4	0.2
22	1.1	1.2	5.9	0.6	0.7	0.8	-0.2	-0.1	0.9	-0.7	0.8	0.3
23	0.9	3.8	3.7	0.5	0.7	0.6	-0.1	-0.3	0.7	-0.4	0.7	0.4
24	0.7	3.2	2.8	0.4	0.6	0.5	-0.3	0.6	1.0	-0.5	0.5	0.5
25	0.7	2.6	2.1	0.4	0.8	0.4	-0.1	0.4	1.3	-0.6	1.0	0.4
26	0.8	2.2	2.2	0.3	0.7	0.4	0.0	0.3	1.2	-0.1	11.8	0.3
27	0.5	2.0	2.3	0.3	0.6	0.8	1.0	0.2	1.0	-0.2	9.6	0.3
28	0.5	1.8	2.1	0.2	0.4	0.7	0.0	0.2	0.8	-0.4	4.0	0.4
29	0.4		2.0	0.3	0.3	1.0	0.1	0.4	0.2	-0.5	2.4	0.3
30	0.4		2.0	0.4	0.4	0.7	0.6	0.4	-0.1	-0.6	1.8	0.4
31	0.2		1.8		0.3		0.8	0.2		-0.6		0.5
Means	0.9	2.2	3.2	0.7	0.4	0.8	0.0	0.0	0.2	-0.5	0.7	1.0

a 14.0 during day.

## DESCRIPTION OF RIVER GAGES, ETC.

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## OHIO RIVER SYSTEM—CLINCH RIVER, SPEERS FERRY, VA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	0.5	0.9	0.1	1.8	1.8	2.8	2.2	-0.4	5.5	-0.2	-0.5	-0.5
2.....	0.4	0.8	0.2	2.4	1.5	2.2	1.6	-0.1	3.1	0.0	-0.4	-0.4
3.....	0.4	0.9	0.2	6.8	1.4	1.8	1.4	-0.2	1.9	0.3	-0.4	-0.1
4.....	0.2	1.7	0.1	6.4	1.2	1.6	1.1	-0.2	1.6	0.4	-0.2	0.0
5.....	0.1	3.2	0.3	4.5	1.0	1.8	0.9	-0.3	0.8	0.3	-0.1	0.1
6.....	0.1	2.5	0.6	3.2	0.8	1.4	1.2	0.4	0.6	0.2	-0.3	0.4
7.....	0.2	1.7	0.5	2.6	0.7	1.2	5.3	1.2	0.5	0.1	-0.3	0.5
8.....	0.2	1.2	0.5	2.2	0.7	8.4	2.6	0.9	0.3	0.0	-0.4	0.3
9.....	0.3	1.4	0.6	2.0	0.8	3.0	1.5	0.6	0.2	-0.2	-0.4	0.2
10.....	0.4	2.0	0.6	1.8	0.7	2.2	1.3	0.5	0.1	-0.3	-0.5	0.5
11.....	2.0	2.1	0.8	1.5	0.9	1.7	1.1	0.4	0.1	-0.3	-0.6	0.4
12.....	10.2	1.6	0.7	1.3	1.5	1.4	0.9	0.3	0.0	-0.4	-0.4	0.3
13.....	8.0	2.6	0.6	1.2	1.3	1.2	0.8	7.3	0.0	-0.1	-0.3	0.2
14.....	4.0	1.4	0.6	2.3	1.2	1.2	0.8	3.9	0.3	0.2	-0.4	0.4
15.....	2.2	1.1	0.5	3.2	1.0	1.0	0.7	3.8	0.1	0.1	-0.4	17.0
16.....	1.3	1.1	0.5	2.6	0.8	1.3	0.5	4.6	0.2	0.1	-0.5	9.2
17.....	0.9	0.9	0.4	2.2	0.6	2.0	0.4	2.3	0.3	0.2	-0.4	3.5
18.....	0.8	0.8	0.3	1.8	0.5	2.6	0.2	2.0	1.2	0.1	-0.5	2.4
19.....	0.8	0.6	0.3	1.5	0.5	1.5	0.2	1.8	1.0	0.0	-0.5	1.7
20.....	0.7	0.5	0.2	2.3	2.1	1.2	0.1	1.6	0.9	-0.1	-0.6	1.0
21.....	0.6	0.4	0.3	9.9	1.5	1.2	0.1	1.2	0.6	-0.2	-0.6	0.8
22.....	0.8	0.4	0.4	5.8	19.8	1.5	0.0	0.9	0.5	-0.3	-0.7	0.7
23.....	0.7	0.3	0.3	5.5	14.4	7.7	0.0	1.1	0.3	-0.4	-0.4	0.6
24.....	0.7	0.3	0.3	6.2	5.4	6.3	-0.2	1.2	0.2	-0.4	-0.3	0.4
25.....	0.6	0.2	0.2	8.3	3.6	3.4	-0.2	1.0	0.2	-0.5	-0.2	0.6
26.....	0.5	0.2	1.5	9.8	3.7	2.2	-0.3	0.9	0.0	-0.5	-0.2	1.4
27.....	0.6	0.3	8.0	7.3	4.8	2.0	-0.3	0.8	0.0	-0.6	-0.4	19.0
28.....	0.5	0.2	5.0	4.7	7.0	1.7	-0.3	0.7	0.2	-0.6	-0.5	12.4
29.....	0.5		2.9	3.1	6.0	1.6	-0.4	0.6	0.1	-0.5	-0.6	15.6
30.....	0.6		2.2	2.4	6.2	2.0	-0.4	0.5	0.0	-0.5	-0.6	20.4
31.....	0.8		1.9		4.0		-0.3	0.5		-0.6		9.1
<b>Means</b>	1.3	1.1	1.0	3.9	3.1	2.4	0.7	1.3	0.7	-0.2	-0.4	3.8
<b>1902</b>												
1.....	4.8	6.6	23.6	3.2	0.3	0.4	4.1	-0.1	-0.7	0.8	-0.2	0.5
2.....	3.4	5.5	8.2	2.4	0.3	0.3	4.2	0.4	-0.8	0.4	-0.3	0.4
3.....	1.8	4.3	4.8	1.8	0.2	0.2	2.2	0.0	-0.4	0.3	-0.3	0.8
4.....	1.7	2.5	3.5	2.0	0.2	0.0	2.2	-0.1	0.2	0.2	-0.4	0.9
5.....	1.6	2.2	4.8	1.8	0.3	-0.2	0.6	-0.2	0.0	0.5	-0.2	1.0
6.....	1.4	1.8	7.5	1.7	0.6	-0.3	0.7	-0.1	-0.2	0.4	-0.1	0.8
7.....	1.3	1.2	4.8	1.6	0.5	-0.3	0.6	0.0	-0.4	0.2	-0.2	0.7
8.....	1.2	0.8	3.7	1.5	0.6	0.0	0.9	0.8	-0.5	0.2	-0.1	0.6
9.....	1.2	0.7	3.2	1.5	0.4	-0.2	0.8	0.4	-0.4	0.1	-0.2	0.4
10.....	1.0	0.6	2.8	1.4	0.4	0.8	1.0	0.3	-0.5	0.1	-0.4	0.4
11.....	0.8	0.5	2.6	1.3	0.3	0.7	0.9	0.2	-0.6	0.3	-0.5	0.3
12.....	0.7	0.5	2.2	1.3	0.2	0.6	0.7	0.1	-0.6	0.5	-0.5	0.3
13.....	0.6	0.4	2.0	1.2	0.2	0.5	0.5	0.1	-0.7	0.4	-0.6	0.5
14.....	0.5	0.4	1.8	1.1	0.4	0.6	0.3	0.0	-0.6	0.6	-0.6	0.6
15.....	0.4	0.3	1.6	1.1	0.8	0.5	0.2	0.1	-0.7	0.5	-0.5	1.5
16.....	0.3	0.5	1.7	1.2	0.6	0.6	0.2	-0.2	-0.8	0.4	-0.6	2.6
17.....	0.4	0.6	5.0	1.0	0.8	0.8	0.1	-0.3	-0.8	0.3	-0.7	2.8
18.....	0.3	0.5	4.0	0.9	0.7	0.7	0.0	-0.4	-0.7	0.3	-0.5	2.2
19.....	0.3	0.5	2.8	0.8	0.6	1.0	-0.2	-0.2	-0.4	0.2	-0.4	1.5
20.....	0.2	0.4	2.2	0.8	0.8	1.2	-0.2	-0.1	-0.2	0.2	-0.3	1.0
21.....	0.2	0.6	1.8	0.7	0.7	0.8	0.4	-0.3	-0.3	0.3	-0.5	1.2
22.....	0.4	0.8	1.4	0.7	0.6	0.7	-0.4	0.0	-0.4	0.2	-0.6	1.4
23.....	0.3	0.9	1.2	0.6	0.8	0.6	-0.5	-0.2	-0.4	0.2	-0.4	1.0
24.....	0.2	0.7	1.0	0.5	0.7	0.4	-0.5	-0.2	-0.6	0.1	-0.2	0.8
25.....	0.4	1.5	0.8	0.4	0.9	0.2	-0.4	-0.4	-0.4	0.1	0.4	0.6
26.....	0.8	7.9	0.7	0.4	0.8	0.3	-0.5	-0.6	1.2	0.2	0.9	0.5
27.....	3.2	5.4	0.6	0.4	0.7	0.9	-0.6	-0.7	0.6	0.1	0.8	0.4
28.....	10.1	21.5	0.6	0.3	0.6	4.8	-0.6	-0.7	0.4	0.0	0.4	0.4
29.....	6.0		15.5	0.3	0.6	4.0	-0.7	-0.6	0.2	0.1	0.3	0.3
30.....	9.6		11.0	0.4	0.5	3.1	0.0	-0.8	0.4	0.0	0.3	0.4
31.....	8.5		5.0		0.4		0.2	-0.8		0.0		0.4
<b>Means</b>	2.1	2.5	4.3	1.1	0.5	0.8	0.5	-0.1	-0.3	0.3	-0.2	0.9

\*21.5 in early morning.

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—CLINCH RIVER, SPEERS FERRY, VA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	0.3	0.7	8.5	1.7	1.8	0.3	-0.6	-0.4	-1.1	-1.1	-1.1	-0.6
2.....	0.4	0.6	4.5	1.5	1.6	0.4	-0.6	-0.2	-1.1	-1.0	-1.0	-0.7
3.....	1.2	0.5	2.8	1.4	1.3	0.3	-0.7	0.0	-1.0	-1.0	-0.9	-0.7
4.....	3.5	3.2	2.0	1.5	1.1	0.5	-0.6	-0.4	-1.1	-1.1	-0.8	-0.8
5.....	2.7	6.8	1.6	1.7	0.8	0.6	-0.4	-0.5	-1.0	-1.1	-0.8	-0.8
6.....	1.9	3.5	1.4	1.8	0.6	0.4	-0.2	-0.6	-0.8	-1.2	-0.9	-0.9
7.....	1.5	2.2	2.2	1.7	0.4	0.2	-0.3	-0.7	-0.9	-1.2	-0.9	-1.0
8.....	1.1	1.7	2.4	5.2	0.3	0.1	-0.4	-0.7	-0.9	-1.1	-1.0	-1.0
9.....	0.9	1.4	7.4	8.2	0.3	0.0	-0.5	-0.8	-1.1	-1.2	-1.0	-0.9
10.....	0.8	1.2	5.5	4.8	0.4	-0.1	-0.5	-0.7	-1.1	-1.2	-1.1	-0.8
11.....	0.6	1.6	3.5	3.1	0.3	0.3	-0.6	-0.8	-1.0	-1.1	-1.1	-0.8
12.....	1.2	3.1	4.4	2.8	0.2	0.4	-0.4	-0.6	-1.1	-1.1	-0.9	-0.9
13.....	1.6	3.2	5.0	4.4	0.1	0.3	-0.2	-0.7	-1.1	-1.2	-0.9	-0.9
14.....	1.5	2.2	3.5	9.1	0.1	0.1	1.0	-0.7	-1.0	-1.2	-0.8	-1.0
15.....	1.1	1.8	2.8	8.7	0.2	0.0	0.8	-0.8	-1.0	-1.1	-0.7	-1.0
16.....	1.0	3.1	2.2	6.5	0.1	-0.1	0.4	-0.8	-1.1	-1.2	-0.6	-0.8
17.....	0.8	<sup>a</sup> 17.0	1.6	3.2	0.1	-0.2	0.3	-0.9	-1.0	-1.1	0.1	-0.9
18.....	0.6	10.2	1.4	2.8	0.2	0.1	0.2	-0.9	-0.9	-1.1	0.2	-0.8
19.....	0.5	4.3	1.2	2.6	0.1	0.4	0.1	-0.7	-1.0	-1.0	0.1	-0.7
20.....	0.4	2.8	1.0	2.7	0.1	0.3	0.0	-0.8	-1.0	-1.1	0.1	0.0
21.....	0.4	2.2	1.5	2.4	0.0	0.2	0.0	-0.8	-1.1	-1.1	0.0	0.9
22.....	0.5	1.7	2.2	2.2	0.0	0.4	-0.1	-0.7	-1.1	-1.2	-0.1	1.0
23.....	0.4	1.5	<sup>b</sup> 10.6	2.0	0.1	0.6	-0.2	-0.8	-1.2	-1.2	-0.1	1.1
24.....	0.4	1.3	14.4	1.8	0.0	0.4	-0.6	-0.8	-1.1	-1.1	-0.2	1.0
25.....	0.5	1.2	6.5	2.0	-0.2	0.3	-0.7	-0.9	-1.1	-1.2	-0.2	1.4
26.....	0.7	1.0	3.6	2.4	-0.3	0.2	-0.7	-0.8	-1.0	-1.2	-0.3	1.7
27.....	0.6	0.9	2.6	2.8	-0.3	0.1	-0.8	-0.9	-1.0	-1.1	-0.4	1.4
28.....	0.8	3.6	2.0	2.9	-0.1	-0.2	-0.8	-0.9	-0.9	-1.1	-0.4	0.9
29.....	1.0	.....	1.8	2.5	-0.1	-0.3	-0.7	-0.8	-1.0	-1.2	-0.5	0.5
30.....	1.0	.....	1.5	2.0	0.0	-0.5	-0.8	-0.9	-1.0	-1.2	-0.6	0.4
31.....	0.8	.....	1.4	.....	0.2	.....	-0.6	-1.0	.....	-1.1	.....	0.3
Means.	1.0	3.0	3.6	3.3	0.3	0.2	-0.3	-0.7	-1.0	-1.1	-0.6	-0.2
<b>1904</b>												
1.....	0.1	-0.2	0.9	1.1	2.5	0.9	1.6	-0.6	-1.1	-1.1	-1.0	-0.4
2.....	0.0	0.3	2.0	0.9	1.8	1.8	1.5	-0.5	-0.8	-1.0	-1.1	-0.5
3.....	0.0	-0.6	1.4	0.7	1.3	1.4	1.0	-0.7	-0.8	-1.1	-1.2	-0.3
4.....	-0.4	-0.6	1.1	0.5	1.1	0.9	0.3	-0.1	-0.6	-1.2	-1.1	-0.3
5.....	-0.7	-0.5	0.8	0.3	1.4	0.5	0.1	-0.4	-0.4	-1.2	-1.0	0.0
6.....	-0.7	-0.4	0.7	0.2	1.2	0.2	0.1	-0.4	-0.5	-1.1	-0.6	3.1
7.....	-0.2	-0.2	1.1	0.2	1.0	0.1	0.3	-0.4	-0.6	-1.3	-0.8	2.3
8.....	0.0	0.6	3.4	0.3	0.9	0.1	0.2	-0.5	-0.7	-1.3	-0.8	1.1
9.....	-0.2	0.8	3.1	0.2	0.8	-0.1	0.5	-0.4	-0.7	-1.3	-0.8	0.6
10.....	-0.3	0.6	2.0	0.2	1.0	-0.2	1.5	-0.5	-0.7	-1.2	-0.9	0.4
11.....	-0.4	0.4	1.6	0.1	0.9	0.0	1.1	-0.3	-0.8	-1.1	-0.9	0.5
12.....	-0.2	0.3	1.6	0.2	0.8	1.3	1.5	-0.4	-0.9	-1.0	-1.0	0.6
13.....	0.0	0.1	1.5	0.2	0.6	0.5	1.1	-0.5	-0.9	-1.2	-0.9	0.6
14.....	0.6	0.1	1.4	0.1	0.5	0.1	0.6	-0.5	-0.9	-1.2	-0.7	0.3
15.....	0.5	0.2	1.4	0.1	0.4	0.0	0.3	-0.6	-1.0	-1.1	-0.6	0.2
16.....	0.3	0.1	1.3	0.2	0.3	-0.2	0.2	-0.4	-1.0	-1.2	-0.6	0.2
17.....	0.3	-0.1	1.1	0.2	0.4	-0.3	0.1	-0.6	-1.1	-1.2	-0.7	-0.1
18.....	0.2	-0.3	1.0	0.1	0.3	-0.2	0.0	-0.1	-1.1	-1.1	-0.7	-0.1
19.....	0.1	-0.2	1.0	0.1	0.3	-0.2	-0.1	-0.4	-1.2	-1.1	-0.7	-0.2
20.....	0.1	-0.1	0.9	0.2	0.2	-0.1	-0.2	-0.4	-1.1	-1.1	-0.7	-0.4
21.....	0.2	0.0	0.8	0.0	0.2	0.0	-0.3	-0.4	-1.0	-1.0	-0.6	-0.4
22.....	0.3	1.1	0.8	-0.1	0.1	0.2	-0.5	-0.3	-0.9	-1.1	-0.6	-0.4
23.....	3.1	2.3	1.2	-0.1	0.0	0.9	-0.5	-0.3	-1.1	-1.1	-0.5	-0.5
24.....	2.2	2.1	3.1	-0.1	0.0	0.5	-0.4	-0.5	-1.1	-1.0	-0.5	-0.4
25.....	1.4	1.4	2.6	-0.2	0.1	0.1	-0.5	-0.5	-1.1	-1.1	-0.4	0.1
26.....	1.1	1.0	2.0	0.0	0.0	0.0	-0.5	-0.6	-1.0	-1.1	-0.4	0.5
27.....	0.9	0.8	2.5	0.2	-0.1	-0.2	-0.6	-0.8	-1.0	-1.2	-0.5	0.4
28.....	0.3	0.8	3.0	4.8	-0.2	-0.3	-0.3	-0.8	-1.1	-1.0	-0.6	2.4
29.....	0.1	0.7	2.4	<sup>c</sup> 4.9	-0.2	0.4	-0.4	-0.9	-1.1	-1.1	-0.7	2.0
30.....	0.1	.....	1.8	3.3	0.0	0.6	-0.5	-0.9	-1.0	-1.1	-0.4	1.2
31.....	0.0	.....	1.4	.....	0.4	.....	-0.6	-0.9	.....	-1.0	.....	0.8
Means.	0.3	0.4	1.6	0.6	0.6	0.3	0.2	-0.5	-0.9	-1.1	-0.4	0.4

<sup>a</sup> Maximum stage, 17.4.<sup>b</sup> Maximum stage, 16.9.<sup>c</sup> 5.3 at 5 p. m.



## OHIO RIVER SYSTEM—CLINCH RIVER, CLINTON, TENN.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	Frozen.	3.8	9.0	7.3	5.0	3.2	6.3	6.4	3.2	4.0	3.3	9.6
2.....	4.0	3.7	9.4	7.0	4.5	3.2	5.5	6.1	3.1	4.0	3.3	7.5
3.....	Frozen.	3.7	12.0	6.7	4.3	3.1	4.5	5.2	3.1	3.8	3.5	7.0
4.....	3.6	14.0	6.5	4.2	3.1	4.2	4.5	2.9	3.5	3.7	6.8	
5.....	3.9	11.0	6.3	4.0	3.3	4.5	4.3	2.8	3.2	3.7	8.0	
6.....	4.0	4.0	9.5	6.0	4.0	3.5	4.0	4.0	2.6	2.9	4.0	10.1
7.....	4.2	4.5	9.0	5.8	3.8	3.9	3.9	3.6	2.5	2.8	4.1	12.5
8.....	4.5	5.0	9.5	5.5	3.7	4.0	3.9	3.4	2.4	3.5	4.0	10.4
9.....	4.2	9.0	11.5	5.2	3.8	3.4	3.8	3.0	2.2	3.9	4.0	8.5
10.....	4.2	11.0	14.5	5.0	3.5	3.3	3.6	2.9	2.1	3.5	3.8	7.8
11.....	4.4	12.0	13.0	5.2	3.7	3.0	3.4	2.8	2.0	3.6	3.7	7.0
12.....	7.0	10.5	11.0	5.0	3.6	3.0	3.1	2.6	2.0	3.5	3.5	6.6
13.....	8.0	14.5	9.5	5.0	3.2	3.5	3.0	2.5	2.2	3.7	3.5	6.2
14.....	10.5	18.0	8.5	5.2	3.0	3.2	3.0	2.8	2.2	3.4	3.4	5.8
15.....	9.0	20.0	8.0	5.0	3.0	3.8	3.0	3.1	3.0	3.0	3.3	5.5
16.....	6.5	15.0	7.5	5.0	2.9	4.0	2.9	2.9	3.3	3.0	3.1	5.2
17.....	6.0	11.0	7.3	5.2	2.8	5.2	2.9	3.5	5.3	2.8	3.0	5.0
18.....	5.4	9.5	7.0	5.5	2.6	4.5	2.9	3.0	7.4	2.7	3.0	5.0
19.....	5.9	8.0	7.0	5.8	2.6	10.5	2.8	3.0	6.4	2.7	2.9	4.5
20.....	7.5	7.5	8.0	5.8	2.5	11.0	2.8	2.8	5.5	2.6	2.8	4.3
21.....	9.5	6.5	13.5	8.0	2.4	8.0	2.8	2.6	4.5	2.6	3.5	4.0
22.....	10.0	6.5	20.5	7.5	2.2	6.8	3.0	3.3	5.0	2.5	7.8	4.2
23.....	8.0	7.5	16.0	6.5	2.2	6.6	3.5	3.1	6.0	2.8	7.0	4.4
24.....	7.0	8.0	12.0	6.2	2.1	6.4	3.9	3.5	6.3	3.6	10.5	4.5
25.....	6.5	10.5	10.5	5.8	4.0	5.4	3.5	3.8	5.5	3.5	9.5	4.8
26.....	6.0	10.0	9.5	6.1	3.8	6.3	3.7	3.5	5.4	3.6	17.5	4.6
27.....	5.5	10.0	9.0	6.3	3.7	5.3	6.0	4.5	5.9	3.5	21.4	4.5
28.....	5.0	9.5	8.5	5.8	3.5	5.8	8.3	4.1	5.0	3.5	23.3	4.5
29.....	4.5	.....	8.3	5.7	3.5	5.6	8.0	4.0	4.5	3.8	14.0	4.4
30.....	4.2	.....	8.0	5.2	3.5	7.6	7.4	3.4	4.2	3.6	11.5	4.5
31.....	4.0	.....	7.5	.....	3.4	.....	6.6	3.4	.....	3.4	.....	4.7
Means.	6.1	8.8	10.3	5.9	3.4	5.0	4.2	3.6	4.0	3.3	6.5	6.2
1901												
1.....	5.1	5.8	4.0	10.8	9.4	10.2	6.3	3.1	6.2	3.7	2.7	2.3
2.....	5.2	6.0	4.0	12.2	8.5	8.4	7.0	2.8	9.1	3.7	2.6	2.2
3.....	5.0	6.2	4.3	15.0	7.8	7.5	7.0	2.7	12.5	4.0	2.6	2.3
4.....	5.0	7.2	4.1	16.0	7.0	7.0	5.9	2.8	9.0	4.0	2.5	2.5
5.....	4.8	8.2	4.4	15.8	6.8	6.6	5.5	3.0	7.5	4.0	2.5	2.5
6.....	4.6	9.5	4.2	13.5	6.6	6.3	6.2	4.2	6.6	4.0	2.5	2.4
7.....	4.5	10.5	4.0	11.5	6.3	6.2	6.1	4.8	5.6	3.9	2.5	2.8
8.....	4.4	9.0	3.9	10.2	6.2	5.4	5.9	4.9	5.4	3.8	2.5	4.5
9.....	4.2	8.0	5.0	9.3	6.3	12.0	9.4	5.5	5.2	3.8	2.5	4.3
10.....	4.2	7.5	5.5	8.7	6.1	11.4	8.5	5.4	4.5	3.5	2.5	4.4
11.....	6.0	7.7	7.0	8.5	5.9	7.5	7.5	5.0	4.0	3.5	2.5	4.5
12.....	14.5	8.0	8.0	8.0	5.9	6.7	6.6	4.5	3.9	3.3	2.5	4.5
13.....	20.5	8.0	7.8	7.5	6.1	6.3	5.5	5.8	4.0	3.5	2.7	4.3
14.....	19.5	7.3	7.5	9.5	6.3	6.1	5.3	13.5	4.0	3.6	2.7	5.5
15.....	16.0	7.0	7.3	10.5	6.3	6.3	4.6	26.7	5.0	3.7	2.7	16.5
16.....	11.0	6.6	6.6	11.3	6.1	7.0	4.2	24.5	6.2	4.0	2.7	22.0
17.....	9.0	6.3	5.2	10.5	5.5	6.8	4.1	19.0	8.4	3.8	2.6	22.5
18.....	8.0	6.1	5.5	9.5	5.2	7.0	4.0	14.0	7.6	3.5	2.5	13.0
19.....	7.3	5.5	5.3	9.5	5.1	7.3	3.9	12.0	7.0	3.5	2.5	9.5
20.....	6.6	5.4	5.2	15.0	5.9	7.5	3.9	10.3	7.5	3.4	2.5	8.2
21.....	6.1	5.2	5.2	18.5	6.2	7.5	3.6	9.0	7.0	3.3	2.5	7.5
22.....	5.5	5.1	5.3	19.2	13.5	12.0	3.5	8.7	6.1	3.1	2.5	6.6
23.....	5.2	5.0	5.2	17.0	22.5	8.0	3.4	8.3	5.5	3.0	2.5	7.5
24.....	5.4	4.8	5.2	16.2	26.0	7.0	3.4	8.2	5.3	3.0	2.5	7.5
25.....	5.5	4.5	5.4	15.5	15.5	15.0	3.3	8.0	4.8	2.9	2.5	7.3
26.....	5.2	4.3	6.7	15.4	11.0	10.5	3.2	7.7	4.4	2.7	2.5	7.0
27.....	5.0	4.0	10.2	17.4	10.2	8.5	3.0	7.9	4.4	2.6	2.5	15.0
28.....	5.2	4.2	14.5	16.0	9.5	7.5	2.9	8.2	4.0	2.6	2.5	23.8
29.....	5.0	.....	15.0	13.0	12.0	7.0	2.8	7.0	4.0	2.6	2.5	28.5
30.....	5.1	.....	11.5	10.8	11.5	6.3	2.6	6.6	3.9	2.6	2.5	27.5
31.....	5.4	.....	11.4	.....	11.0	.....	2.6	6.1	.....	2.6	.....	31.0
Means.	7.2	6.5	6.6	12.7	9.0	8.0	4.9	8.4	6.0	3.4	2.5	10.0

## OHIO RIVER SYSTEM—CLINCH RIVER, CLINTON, TENN.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	24.8	22.0	23.9	17.4	5.3	4.4	11.6	3.5	2.7	5.0	2.8	7.0
2.....	15.0	18.0	32.5	13.0	5.4	4.2	10.4	3.5	2.6	4.9	2.8	6.1
3.....	12.4	16.6	24.5	11.0	5.5	4.2	11.4	3.4	3.0	5.5	2.7	7.5
4.....	10.5	14.0	14.3	10.1	5.0	4.0	9.7	3.3	3.0	5.0	2.7	7.5
5.....	9.5	12.4	17.5	9.6	4.9	4.0	8.5	3.3	2.9	4.5	2.7	7.8
6.....	9.0	10.6	18.5	9.4	4.7	4.0	6.7	3.1	2.8	4.3	3.0	8.0
7.....	8.0	9.5	19.9	9.4	4.5	4.0	6.0	3.3	2.8	4.0	3.2	7.5
8.....	7.5	8.5	16.0	9.0	4.5	4.0	5.5	3.2	2.6	3.8	3.0	7.0
9.....	7.3	8.0	14.0	8.6	4.5	4.1	5.2	3.2	2.6	3.7	3.0	6.5
10.....	7.0	7.5	13.0	8.3	4.4	4.2	5.2	3.5	2.5	3.4	2.8	6.0
11.....	6.7	7.1	12.0	7.9	4.5	4.1	5.9	3.8	2.4	3.3	2.8	5.5
12.....	6.3	6.6	11.0	7.5	4.6	4.5	6.0	3.8	2.4	3.7	2.7	5.4
13.....	6.1	6.2	10.5	7.5	4.4	4.8	5.6	3.5	2.4	4.0	2.7	5.0
14.....	5.8	6.1	9.6	7.4	4.5	4.6	5.4	3.3	2.4	4.3	2.7	4.9
15.....	5.5	6.1	9.0	7.3	4.6	4.3	4.8	3.1	2.5	4.6	2.8	4.8
16.....	5.3	5.8	9.5	7.0	4.6	4.2	4.7	3.0	2.5	4.7	2.8	6.0
17.....	5.1	5.5	10.6	6.6	4.8	4.0	4.4	3.0	2.5	4.6	2.7	10.1
18.....	5.1	5.3	12.0	6.3	4.6	4.0	4.2	2.9	2.4	4.5	3.0	11.5
19.....	5.1	5.2	12.6	6.2	4.5	4.2	4.0	2.9	2.6	4.3	3.1	11.0
20.....	5.2	5.2	11.0	6.1	4.5	4.5	4.0	2.8	3.0	4.0	3.3	9.0
21.....	5.3	5.1	10.1	5.8	4.8	4.7	4.0	2.8	3.0	3.9	3.4	9.5
22.....	5.5	5.6	9.0	5.5	4.6	4.8	3.9	3.1	3.1	3.7	3.4	9.8
23.....	6.0	6.0	8.5	5.4	4.6	4.9	3.8	3.0	3.0	3.5	3.5	9.5
24.....	6.6	6.1	7.8	5.4	4.5	4.6	3.6	3.0	3.0	3.5	3.5	8.8
25.....	6.3	6.6	7.4	5.3	4.5	4.4	3.6	3.0	3.5	3.4	4.0	8.0
26.....	6.8	6.3	7.0	5.2	4.6	4.5	3.5	3.0	4.5	3.2	6.0	7.8
27.....	7.5	10.3	6.6	5.2	4.6	4.6	3.4	3.0	4.4	3.0	8.0	6.6
28.....	14.5	16.2	6.2	5.1	4.8	6.2	3.3	2.9	7.4	3.0	8.5	6.0
29.....	20.4		26.0	5.1	4.9	7.5	3.5	2.8	6.3	3.0	7.1	5.9
30.....	20.0		29.5	5.3	4.7	13.5	3.4	2.8	4.8	2.8	6.2	5.5
31.....	19.9		28.6		4.6		3.4	2.8		2.8		5.4
Means.	9.2	8.9	14.5	7.6	4.7	4.8	5.4	3.1	3.2	3.9	3.7	7.3
<b>1903</b>												
1.....	5.4	6.2	20.8	9.4	8.5	6.0	4.0	3.0	3.0	2.5	2.3	2.5
2.....	5.5	6.0	22.4	9.0	8.0	6.2	3.9	3.5	3.4	2.5	2.4	2.5
3.....	6.5	6.0	17.0	8.6	7.5	6.7	4.0	4.0	3.1	2.4	2.4	2.6
4.....	8.0	11.5	12.5	9.1	7.3	5.5	4.5	3.9	3.0	2.6	2.4	2.6
5.....	9.0	15.5	10.5	9.0	6.9	5.3	4.0	3.8	3.0	2.7	2.7	2.5
6.....	10.5	20.0	10.0	9.4	6.5	6.0	4.5	4.0	2.8	2.7	2.6	2.5
7.....	9.0	14.5	11.5	9.0	6.1	7.5	4.5	4.5	2.7	2.6	2.6	2.6
8.....	8.5	11.5	12.3	13.0	6.0	6.5	4.0	4.4	2.5	2.6	2.5	2.5
9.....	8.6	10.4	17.8	19.6	5.8	6.0	4.2	4.1	2.6	2.9	2.4	2.5
10.....	7.0	9.6	19.6	21.1	5.7	5.8	4.0	4.0	2.6	2.9	2.4	2.7
11.....	6.5	9.8	18.0	16.8	5.5	5.6	4.0	3.9	2.8	2.8	2.3	2.8
12.....	7.5	11.5	14.5	12.7	4.8	5.6	3.8	4.2	2.8	2.7	2.3	2.7
13.....	8.0	11.8	13.0	11.8	4.6	5.0	5.0	4.8	2.5	2.7	2.4	2.7
14.....	8.0	11.5	13.4	15.0	4.5	4.8	5.5	4.5	2.4	2.6	2.4	2.6
15.....	9.5	10.7	12.0	21.0	4.4	4.5	5.4	4.5	2.2	2.6	2.4	2.6
16.....	8.8	11.0	10.5	20.0	4.1	4.3	5.5	4.4	2.0	2.6	2.4	2.5
17.....	7.0	20.5	9.5	16.6	4.1	4.1	5.4	4.0	2.0	2.6	3.0	2.5
18.....	6.5	26.0	8.8	13.9	4.1	3.9	5.0	4.0	2.0	2.6	7.5	2.7
19.....	6.1	24.5	8.2	12.5	4.0	4.0	4.5	3.7	2.1	2.5	6.4	2.8
20.....	6.0	15.5	7.5	12.0	3.9	4.8	6.0	3.5	2.3	2.5	5.0	3.0
21.....	5.5	12.5	7.5	12.0	3.9	4.8	4.6	3.5	2.4	2.4	4.5	6.2
22.....	5.2	10.0	7.8	11.9	3.9	4.9	4.2	3.4	2.4	2.4	4.3	6.8
23.....	5.2	9.2	11.0	11.0	3.8	4.5	4.0	3.4	2.4	2.4	4.0	6.6
24.....	5.3	8.5	16.5	10.3	3.7	4.5	4.0	3.3	2.2	2.2	3.9	6.2
25.....	5.5	8.0	22.5	9.6	3.7	4.8	3.6	3.2	2.1	2.2	3.8	5.5
26.....	5.4	7.5	17.5	9.0	3.7	4.6	3.4	3.0	2.0	2.3	3.4	7.0
27.....	5.8	7.2	12.8	8.8	3.5	4.3	3.3	3.0	2.0	2.3	3.0	8.5
28.....	6.0	17.5	10.6	9.3	3.4	4.5	3.3	2.8	2.0	2.3	2.8	8.8
29.....	6.1		9.5	9.5	3.4	4.6	3.3	3.0	2.3	2.3	2.6	7.5
30.....	6.0		9.2	9.0	5.4	4.2	3.2	3.1	2.4	2.2	2.5	7.0
31.....	6.3		10.1		6.0		3.0	3.2		2.2		5.5
Means.	6.9	12.3	13.1	12.3	5.1	5.1	4.2	3.7	2.5	2.5	3.2	4.1

## OHIO RIVER SYSTEM—CLINCH RIVER, CLINTON, TENN.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	5.3	4.8	7.5	8.7	10.0	4.8	7.5	3.5	3.0	2.8	2.2	3.5
2.....	5.0	4.4	7.0	8.0	8.7	5.0	7.0	3.5	3.0	2.6	2.2	3.7
3.....	4.0	4.0	7.2	7.0	7.8	7.5	8.5	3.5	3.0	2.5	2.3	3.7
4.....	3.2	4.0	8.0	6.5	7.5	8.5	7.4	3.4	3.3	2.5	2.4	3.8
5.....	3.0	4.0	7.4	6.0	7.5	8.5	6.7	3.2	3.5	2.5	2.4	3.9
6.....	3.0	4.0	6.6	5.9	7.7	7.5	6.0	3.0	4.0	2.5	2.5	7.0
7.....	3.3	4.4	7.5	5.8	6.8	7.0	5.8	3.2	4.2	2.4	2.6	9.5
8.....	3.4	4.5	9.0	5.6	6.8	5.5	5.6	3.5	3.6	2.4	2.6	9.8
9.....	3.2	5.5	10.2	5.5	7.2	5.0	5.2	3.8	3.4	2.4	2.5	7.8
10.....	3.2	6.4	11.5	5.2	7.0	4.5	5.0	3.9	3.2	2.4	2.5	6.4
11.....	3.3	6.5	10.0	5.0	6.8	4.2	5.5	3.9	3.0	2.5	2.5	6.2
12.....	3.4	6.0	9.0	5.0	6.7	4.0	8.0	4.0	3.0	2.5	2.4	5.5
13.....	3.4	5.5	8.5	4.8	6.5	3.8	7.5	4.1	3.0	2.5	2.5	5.7
14.....	3.4	5.0	8.7	4.8	6.0	4.5	7.0	4.1	3.0	2.4	2.6	5.5
15.....	3.5	4.9	8.5	5.0	5.8	4.5	6.5	4.4	2.9	2.3	2.6	5.0
16.....	3.8	4.5	8.3	5.0	5.5	4.2	5.6	4.5	2.8	2.3	2.7	4.7
17.....	5.2	4.5	8.0	5.0	5.5	3.8	5.0	4.5	2.7	2.3	2.7	4.5
18.....	5.5	4.4	7.6	4.9	5.4	3.7	4.6	4.3	2.6	2.3	2.6	4.2
19.....	5.8	4.3	7.5	4.7	5.2	3.7	4.4	4.0	2.6	2.3	2.8	4.0
20.....	5.5	4.5	7.3	4.7	5.0	3.6	4.2	3.8	2.5	2.3	2.9	4.0
21.....	5.4	4.6	7.5	4.8	5.0	3.6	4.0	4.0	2.6	2.3	3.0	3.4
22.....	5.6	6.6	9.5	4.8	4.7	3.8	4.0	4.3	2.6	2.3	3.1	3.3
23.....	10.0	7.7	9.6	4.7	4.5	3.9	4.4	4.4	2.6	2.2	3.3	3.3
24.....	10.7	9.0	14.0	4.6	4.2	3.8	4.3	4.4	2.6	2.2	3.3	3.4
25.....	11.0	9.4	16.0	4.4	4.0	4.6	4.2	4.2	2.6	2.2	3.4	5.3
26.....	9.0	8.6	14.0	4.6	4.0	4.6	4.0	4.2	2.6	2.3	3.4	6.9
27.....	7.5	9.0	13.6	5.0	3.9	4.5	3.9	4.0	2.6	2.3	3.4	7.5
28.....	6.7	9.0	12.0	5.2	3.8	4.3	3.7	3.8	2.8	2.3	3.3	11.5
29.....	6.0	8.2	11.8	6.0	3.7	4.4	3.7	3.6	2.9	2.3	3.3	11.3
30.....	5.5		11.0	11.0	3.5	4.9	3.8	3.5	2.8	2.3	3.4	11.5
31.....	5.0		9.8		4.3		3.6	3.2		2.2		9.0
Means	5.2	5.8	9.5	5.6	5.8	4.9	5.4	3.9	3.0	2.4	2.8	6.0

## OHIO RIVER SYSTEM—SOUTH FORK, HOLSTON RIVER, BLUFF CITY, TENN.

1902												
1.....				3.2	1.2	0.7	4.2	0.6	0.4	1.0	0.5	0.8
2.....				2.7	1.2	0.6	3.4	1.0	0.3	0.7	0.5	0.9
3.....				2.4	1.1	0.6	2.6	0.7	0.3	0.5	0.4	1.5
4.....				2.4	1.1	0.6	2.1	0.5	0.5	0.5	0.4	1.7
5.....				3.1	1.1	0.5	1.8	1.2	0.7	0.4	0.4	2.0
6.....				3.1	1.1	0.5	1.6	1.6	0.5	0.4	0.5	1.7
7.....				2.8	1.0	0.5	1.4	2.6	0.4	0.3	0.4	1.5
8.....				2.6	1.1	0.5	1.3	1.6	0.3	0.2	0.4	1.3
9.....				2.4	1.0	1.4	1.2	1.1	0.3	0.3	0.4	1.1
10.....			3.3	2.3	1.0	1.0	1.3	0.8	0.3	0.3	0.4	1.0
11.....			3.1	2.3	0.9	0.7	1.7	0.7	0.5	0.3	0.3	0.9
12.....			2.9	2.2	0.9	0.6	1.1	0.8	0.4	0.7	0.3	0.9
13.....			2.6	2.1	0.9	0.5	1.1	0.6	0.4	0.6	0.3	0.9
14.....			2.5	2.0	0.8	1.0	1.0	0.6	0.4	0.8	0.3	1.0
15.....			2.3	1.9	1.2	1.0	1.0	0.8	0.3	0.7	0.3	1.0
16.....			2.5	1.8	1.0	1.0	0.9	0.6	0.3	0.6	0.3	1.2
17.....			2.7	1.8	0.9	1.9	0.8	1.0	0.3	0.5	0.3	1.6
18.....			3.4	1.8	0.9	1.6	0.7	0.8	0.3	0.4	0.4	1.7
19.....			2.9	1.7	0.9	1.3	0.7	0.7	0.2	0.4	0.5	1.5
20.....			2.6	1.7	0.9	1.1	0.7	1.1	0.2	0.4	0.5	1.4
21.....			2.3	1.7	0.9	0.9	0.6	0.8	0.4	0.3	0.4	1.2
22.....			2.2	1.7	0.9	0.9	0.6	1.0	0.3	0.3	0.4	1.1
23.....			2.0	1.7	0.8	1.0	0.6	0.8	0.3	0.3	0.4	1.1
24.....			1.9	1.6	0.8	0.9	0.6	0.6	0.1	0.2	0.4	0.9
25.....			1.8	1.5	0.9	0.7	0.5	0.6	0.3	0.2	0.7	0.9
26.....			1.7	1.5	1.1	1.5	0.5	0.5	0.6	0.2	1.6	0.8
27.....			1.6	1.4	1.1	2.2	0.5	0.5	0.7	0.2	1.6	0.7
28.....			1.6	1.4	1.1	7.5	0.5	0.5	0.7	0.5	1.3	0.6
29.....			5.7	1.3	0.8	4.2	0.6	0.5	0.6	0.6	1.0	0.5
30.....			5.6	1.3	0.8	4.1	0.9	0.4	0.4	0.6	0.8	0.8
31.....			3.9		0.8		0.7	0.4		0.5		0.9
Means			2.8	2.0	1.0	1.4	1.2	0.8	0.4	0.4	0.5	1.1

a 8.0 at 6 p. m.

b 6.8 at 6 p. m.

## OHIO RIVER SYSTEM—SOUTH FORK, HOLSTON RIVER, BLUFF CITY, TENN.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	0.8	1.4	4.3	3.5	2.4	0.8	0.5	0.6	0.4	0.0	0.1	-0.2
2.....	0.9	1.4	3.4	3.0	2.2	0.8	0.5	0.4	0.3	0.0	0.1	0.1
3.....	1.9	1.4	2.8	2.8	1.9	0.8	0.4	0.6	0.3	0.0	0.0	0.1
4.....	3.2	1.7	2.4	3.6	2.1	0.8	0.5	0.5	0.2	0.0	0.0	0.1
5.....	2.8	4.2	2.1	3.5	2.0	0.7	0.5	0.6	0.1	0.0	0.2	0.2
6.....	2.3	3.0	1.9	3.2	1.9	0.7	0.8	0.6	0.1	0.0	0.2	0.2
7.....	1.9	2.4	1.9	2.6	1.7	0.7	0.8	0.5	0.1	0.0	0.2	-0.2
8.....	1.6	2.4	1.8	3.7	1.6	0.7	0.6	0.4	0.1	0.1	0.2	-0.1
9.....	Frozen.	2.2	2.1	4.7	1.6	0.7	0.5	0.4	0.1	0.2	0.2	0.3
10.....	1.1	1.9	2.1	3.7	1.4	0.7	0.4	0.3	0.1	0.2	0.0	0.2
11.....	1.6	2.6	2.0	3.0	1.4	0.7	0.4	0.5	0.1	0.2	0.0	0.0
12.....	1.5	4.1	2.4	2.7	1.4	0.9	0.5	0.7	0.3	0.1	0.1	-0.2
13.....	Frozen.	3.6	2.3	<sup>a</sup> 2.5	1.3	0.7	2.8	0.6	0.2	0.1	0.1	0.3
14.....	1.5	2.7	2.1	2.6	1.2	0.6	2.7	0.4	0.1	0.1	0.1	0.3
15.....	1.5	2.4	2.0	3.1	1.2	0.6	1.6	0.4	0.1	0.0	0.1	0.3
16.....	1.4	2.4	1.9	3.4	1.2	0.6	1.3	0.4	0.1	0.0	0.4	0.1
17.....	1.3	9.4	1.7	3.2	1.2	0.6	0.9	<sup>b</sup> 0.4	0.2	0.1	2.0	0.1
18.....	1.1	5.6	1.6	2.8	1.1	0.6	0.8	0.7	0.2	0.1	1.2	0.1
19.....	1.0	3.9	1.6	2.5	1.0	0.5	0.8	0.5	0.2	0.1	0.7	-0.2
20.....	0.9	3.1	1.4	2.5	1.0	0.5	0.6	0.4	0.1	0.1	0.5	0.7
21.....	0.9	2.7	1.4	2.6	1.0	0.5	0.5	0.4	0.1	0.1	0.4	1.5
22.....	0.9	2.3	2.1	2.2	1.0	0.5	0.5	0.4	0.1	0.0	0.4	1.0
23.....	0.9	2.2	7.0	2.2	1.0	0.5	0.5	0.3	0.1	0.0	0.3	0.6
24.....	0.8	1.9	6.8	2.1	0.9	0.5	0.5	0.3	0.0	0.0	0.3	0.6
25.....	0.9	1.7	4.2	1.8	0.8	0.4	0.4	0.2	0.0	0.0	0.3	0.6
26.....	0.9	1.7	3.3	3.6	0.8	0.4	0.4	0.2	0.1	0.0	0.3	1.5
27.....	0.9	1.6	2.8	4.6	0.8	0.5	0.4	0.2	0.0	0.0	0.3	1.5
28.....	0.9	2.8	2.5	3.6	0.7	0.6	0.4	0.2	0.0	0.0	0.0	1.0
29.....	1.3		2.2	3.0	0.7	0.8	0.4	0.2	0.0	0.0	0.1	0.9
30.....	1.1		2.2	2.8	0.7	0.6	0.4	0.2	0.0	0.0	0.2	0.8
31.....	1.6		4.1		0.7		0.4	0.4		0.0		0.6
Means.	1.4	2.8	2.7	3.0	1.3	0.6	0.7	0.4	0.1	0.0	0.3	0.4
<b>1904</b>												
1.....	0.3	0.7	1.6	1.6	2.4	0.9	1.8	0.4	0.0	0.1	-0.1	0.3
2.....	0.4	0.2	1.8	1.6	2.1	0.9	1.3	2.0	0.2	0.1	0.0	0.3
3.....	0.6	0.5	2.0	1.4	2.0	1.0	1.0	1.6	0.4	0.1	0.0	0.4
4.....	0.3	0.4	2.0	1.2	3.0	0.9	0.9	1.2	0.6	0.1	0.1	0.6
5.....	0.1	0.1	1.9	1.2	2.8	0.8	0.8	0.9	0.7	0.1	0.3	0.7
6.....	0.4	0.4	1.7	1.1	2.3	0.7	0.7	1.0	0.6	0.1	0.3	2.8
7.....	0.4	0.5	1.7	1.1	1.9	0.6	0.7	0.9	0.4	0.1	0.2	1.8
8.....	0.4	1.9	3.2	1.2	1.7	0.6	0.6	0.7	0.2	0.1	0.2	1.3
9.....	0.4	2.0	3.0	1.1	1.9	0.7	0.6	0.6	0.2	0.0	0.1	0.9
10.....	0.2	1.5	2.4	1.0	2.0	0.6	0.8	0.6	0.1	0.0	0.1	0.8
11.....	0.1	1.4	2.1	1.0	2.0	0.6	0.8	0.7	0.2	0.0	0.1	0.8
12.....	0.9	1.1	2.2	1.0	1.8	0.6	0.6	1.6	0.2	0.0	0.0	0.9
13.....	0.9	0.8	1.9	1.1	1.6	0.6	0.5	1.2	0.1	0.0	0.2	0.8
14.....	0.9	0.9	1.9	1.5	1.4	0.6	0.7	1.0	0.1	0.0	0.5	0.8
15.....	0.7	1.0	1.8	1.5	1.5	0.6	0.4	0.8	0.1	0.0	0.5	0.5
16.....	0.6	1.0	1.7	1.5	1.4	0.5	0.3	0.7	0.1	-0.1	0.4	0.6
17.....	1.0	0.8	1.5	1.4	1.2	0.5	0.9	0.6	0.1	-0.1	0.3	0.6
18.....	1.0	0.5	1.5	1.1	1.1	0.5	0.5	0.5	0.1	-0.1	0.3	0.6
19.....	1.0	0.8	1.6	1.2	1.2	0.4	0.4	0.5	0.1	-0.1	0.3	0.5
20.....	0.9	1.1	1.6	1.0	1.2	0.4	0.4	0.8	0.1	0.0	0.2	0.5
21.....	0.8	1.1	1.5	1.0	1.2	0.4	0.3	0.7	0.1	-0.1	0.2	0.4
22.....	0.8	1.6	1.8	1.0	1.1	0.4	0.3	0.7	0.1	-0.1	0.4	0.4
23.....	1.7	3.1	3.1	1.0	1.0	0.4	0.3	0.7	0.1	-0.1	0.4	0.3
24.....	1.8	2.4	5.7	0.9	0.9	0.4	0.4	0.5	0.1	-0.1	0.4	0.3
25.....	1.4	1.9	3.9	0.9	0.9	0.3	0.7	0.4	0.1	-0.1	0.3	0.7
26.....	1.3	1.6	3.0	0.9	0.8	0.3	0.6	0.4	0.0	-0.1	0.3	0.9
27.....	1.1	1.6	2.7	2.0	0.8	0.4	0.5	0.4	0.0	-0.1	0.2	0.9
28.....	0.8	1.5	2.6	4.2	0.8	0.8	0.6	0.3	0.1	0.0	0.1	2.0
29.....	0.7	1.5	2.1	3.6	0.8	1.7	0.5	0.2	0.1	-0.1	0.1	1.5
30.....	0.4		2.0	2.9	0.8	2.5	0.5	0.2	0.1	-0.1	0.2	1.0
31.....	0.4		1.7		0.8		0.4	0.0		-0.1		0.9
Means.	0.7	1.2	2.2	1.4	1.5	0.7	0.6	0.7	0.2	0.0	0.2	0.8

<sup>a</sup> 5.6 at 5 p. m.<sup>b</sup> 2.8 at 5 p. m.

## OHIO RIVER SYSTEM—HOLSTON RIVER, ROTHERWOOD, TENN.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1												0.3
2												0.3
3												0.4
4												0.5
5												0.6
6												2.2
7												1.7
8												1.1
9												0.8
10												0.7
11												0.7
12												0.8
13												0.7
14												0.5
15												0.5
16												0.5
17												0.5
18												0.5
19												0.5
20												0.4
21												0.4
22												0.4
23												0.4
24												0.4
25												0.6
26												0.8
27												0.8
28												1.9
29												1.8
30												1.3
31												1.0
Mean												0.8

## OHIO RIVER SYSTEM—HOLSTON RIVER, ROGERSVILLE, TENN.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1902												
1				5.1	2.5	2.0	5.6	2.0	1.7	1.9	1.5	2.1
2				4.4	2.4	1.9	4.9	1.8	1.4	2.1	1.5	2.0
3				4.0	2.4	1.9	4.0	2.0	1.4	2.1	1.5	2.1
4				3.9	2.3	1.8	3.4	1.9	1.4	1.9	1.4	2.4
5				4.1	2.4	1.8	3.0	1.9	1.7	1.8	1.4	2.7
6				4.3	2.3	1.8	2.7	1.9	1.8	1.7	1.4	3.1
7				4.2	2.2	1.7	2.7	2.4	1.7	1.7	1.4	2.8
8				4.0	2.3	1.8	2.6	3.1	1.6	1.7	1.4	2.5
9				3.8	2.3	1.9	2.5	2.4	1.5	1.6	1.5	2.4
10				4.8	3.7	2.2	2.5	2.1	1.5	1.6	1.5	2.2
11				4.6	3.6	2.2	2.3	2.5	2.0	1.4	1.5	2.0
12				4.4	3.5	2.1	2.1	2.9	1.9	1.8	1.5	2.0
13				4.2	3.4	2.1	1.9	2.4	1.8	1.6	1.5	2.1
14				3.9	3.3	2.1	1.8	2.3	1.8	1.5	1.9	2.1
15				3.8	3.2	2.2	2.4	2.2	1.8	1.5	2.0	2.2
16				3.7	3.2	2.3	2.3	2.2	1.9	1.4	1.8	2.4
17				5.4	3.1	2.2	2.7	2.2	1.8	1.4	1.6	2.5
18				5.2	3.0	2.2	3.1	2.1	2.0	1.4	1.6	2.9
19				4.5	3.0	2.1	2.6	1.9	1.9	1.4	1.5	2.8
20				4.1	2.9	2.1	2.4	1.8	2.0	1.4	1.5	2.5
21				3.8	3.2	2.4	2.3	1.8	2.1	1.4	1.5	2.4
22				3.6	3.1	2.3	2.3	1.7	2.3	1.5	1.4	2.6
23				3.5	3.0	2.2	2.3	1.7	2.0	1.4	1.4	2.5
24				3.3	2.9	2.2	2.2	1.7	2.0	1.4	1.4	2.4
25				3.2	2.8	2.2	2.1	1.6	1.9	1.4	1.3	2.3
26				3.1	2.7	2.4	2.2	1.6	1.8	1.8	1.4	2.2
27				3.0	2.6	2.7	2.9	1.7	1.8	2.2	1.4	2.8
28				2.9	2.5	2.6	10.4	1.7	1.8	1.9	1.4	2.6
29				7.4	2.5	2.4	6.7	1.7	1.8	1.7	1.5	2.4
30				10.6	2.5	2.2	5.6	1.7	1.7	1.6	1.7	2.2
31				6.4	2.2	2.2	2.3	1.7	1.7	1.6	1.6	2.1
Means			4.5	3.4	2.3	2.7	2.1	2.0	1.6	1.6	1.7	2.3

## OHIO RIVER SYSTEM—HOLSTON RIVER, ROGERSVILLE, TENN.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	2.1	2.6	8.2	5.1	3.7	2.2	2.0	1.6	1.4	1.1	1.3	1.4
2.....	2.0	2.6	5.9	4.4	3.3	2.1	1.9	1.8	1.4	1.1	1.2	1.4
3.....	2.7	2.5	4.6	4.0	3.2	2.1	1.7	1.9	1.4	1.2	1.3	1.4
4.....	4.8	4.3	4.0	4.0	3.1	2.1	1.7	1.8	1.4	1.2	1.2	1.4
5.....	4.3	5.7	3.6	5.1	3.3	2.0	1.8	1.9	1.4	1.2	1.2	1.4
6.....	3.8	5.0	3.4	4.5	3.1	2.0	2.0	1.9	1.3	1.2	1.3	1.3
7.....	3.3	4.0	3.9	4.0	2.9	2.1	1.9	2.1	1.3	1.2	1.3	1.3
8.....	3.0	3.8	3.6	6.2	2.8	2.3	1.9	1.8	1.2	1.1	1.4	1.3
9.....	2.9	3.8	4.4	9.9	2.7	2.2	1.8	1.7	1.2	1.3	1.4	1.3
10.....	2.5	3.5	4.2	6.4	2.6	2.1	1.8	1.6	1.4	1.3	1.4	1.2
11.....	2.4	3.9	3.9	5.1	2.6	2.1	1.6	1.6	1.3	1.3	1.3	1.2
12.....	2.7	4.8	4.5	4.4	2.5	2.1	1.7	1.8	1.3	1.2	1.3	1.3
13.....	2.8	5.2	4.7	4.5	2.5	2.2	2.0	1.7	1.4	1.2	1.3	1.3
14.....	2.6	4.5	4.2	4.8	2.4	2.0	4.2	1.7	1.4	1.1	1.3	1.3
15.....	2.6	4.0	3.8	5.1	2.4	2.0	3.2	1.6	1.4	1.2	1.3	1.3
16.....	3.2	3.8	3.4	5.3	2.3	1.9	2.5	1.6	1.3	1.2	1.2	1.4
17.....	2.5	a 10.9	3.2	5.1	2.3	1.9	2.2	1.5	1.3	1.2	1.7	1.4
18.....	2.4	13.3	3.1	4.8	2.3	1.8	2.1	1.6	1.3	1.3	2.4	1.3
19.....	2.3	6.1	3.0	4.3	2.2	1.8	2.1	1.9	1.5	1.3	2.6	1.2
20.....	2.1	4.8	2.9	4.1	2.2	1.8	2.0	1.8	1.4	1.3	2.1	1.4
21.....	2.0	4.3	2.9	4.2	2.1	1.8	1.9	1.6	1.4	1.3	1.7	1.9
22.....	2.1	4.0	3.0	3.9	2.1	1.7	1.8	1.6	1.3	1.3	1.6	2.3
23.....	2.2	3.6	7.2	3.7	2.1	2.0	1.7	1.5	1.2	1.2	1.5	2.0
24.....	2.1	3.2	14.3	3.6	2.1	1.9	1.7	1.4	1.2	1.2	1.5	1.8
25.....	2.2	3.1	7.6	3.5	2.0	1.8	1.7	1.4	1.2	1.2	1.5	1.8
26.....	2.3	3.0	5.4	3.8	2.0	1.7	1.6	1.4	1.2	1.2	1.4	2.1
27.....	2.3	2.9	4.5	6.0	2.0	1.6	1.6	1.4	1.2	1.2	1.4	2.7
28.....	2.2	4.8	4.0	5.0	1.9	1.7	1.5	1.4	1.2	1.1	1.4	2.4
29.....	2.2	-----	3.7	4.4	1.9	1.7	1.5	1.5	1.1	1.1	1.4	2.0
30.....	2.5	-----	3.6	4.0	2.0	2.1	1.5	1.4	1.1	1.1	1.4	2.0
31.....	2.7	-----	5.4	-----	2.0	-----	1.6	1.4	-----	1.1	-----	1.8
Means.	2.6	4.6	4.6	4.8	2.5	2.0	1.9	1.6	1.3	1.2	1.5	1.6
<b>1904</b>												
1.....	1.8	1.7	2.9	3.0	3.7	2.0	3.1	1.6	1.4	1.2	1.0	1.3
2.....	1.5	1.6	3.1	2.9	3.3	2.7	2.8	1.6	1.4	1.2	1.0	1.3
3.....	1.6	1.6	3.7	2.6	3.1	2.8	2.2	2.4	1.4	1.2	1.0	1.5
4.....	1.6	1.5	3.1	2.4	3.0	2.4	2.1	2.3	1.8	1.2	1.1	1.6
5.....	1.6	1.5	3.1	2.3	4.3	2.2	2.1	2.0	1.9	1.2	1.2	1.7
6.....	1.7	1.5	2.9	2.3	3.6	2.2	2.1	2.0	1.6	1.2	1.3	3.1
7.....	1.6	1.6	2.9	2.3	3.2	2.1	2.2	2.0	1.6	1.2	1.4	3.4
8.....	1.6	2.0	5.0	2.3	2.6	2.1	2.1	1.9	1.5	1.1	1.3	2.6
9.....	1.8	3.1	4.5	2.4	3.0	2.1	2.1	1.8	1.5	1.1	1.3	2.2
10.....	1.6	2.8	3.9	2.4	3.4	2.0	2.0	1.8	1.4	1.1	1.2	2.0
11.....	1.6	2.5	3.5	2.3	3.3	2.5	2.2	1.7	1.4	1.1	1.2	1.8
12.....	1.7	2.2	3.4	2.2	3.1	2.2	2.0	1.7	1.4	1.1	1.2	1.8
13.....	1.8	2.0	3.1	2.2	3.0	2.1	1.9	2.2	1.4	1.1	1.3	1.9
14.....	2.0	1.8	3.1	2.4	2.7	1.9	1.8	2.0	1.4	1.1	1.3	1.8
15.....	2.0	1.8	3.1	2.4	2.6	1.9	1.7	2.0	1.3	1.1	1.5	1.7
16.....	1.8	1.8	3.1	2.4	2.5	1.8	1.7	2.1	1.3	1.1	1.5	1.7
17.....	2.0	1.8	2.8	2.3	2.4	1.8	1.6	1.8	1.3	1.1	1.4	1.7
18.....	2.2	1.7	2.6	2.4	2.3	1.8	1.5	2.0	1.3	1.1	1.3	1.6
19.....	2.2	1.7	2.5	2.3	2.3	1.8	1.5	1.8	1.2	1.1	1.3	1.5
20.....	2.0	2.1	2.5	2.2	2.2	1.8	1.5	1.9	1.2	1.1	1.3	1.5
21.....	1.8	2.2	2.5	2.1	2.2	1.7	1.5	2.7	1.2	1.1	1.3	1.5
22.....	1.8	2.2	3.2	2.0	2.2	1.7	1.5	2.6	1.2	1.1	1.3	1.5
23.....	2.3	3.8	3.7	2.0	2.2	1.7	1.5	2.2	1.2	1.0	1.4	1.5
24.....	3.4	3.8	7.0	2.0	2.2	1.7	1.5	1.8	1.2	1.0	1.4	1.4
25.....	3.0	3.2	6.5	2.0	2.1	1.7	1.5	1.7	1.2	1.0	1.3	1.7
26.....	2.5	3.0	5.0	2.0	2.1	1.7	1.7	1.6	1.2	1.0	1.5	1.8
27.....	2.3	3.1	4.4	2.2	2.1	1.6	1.7	1.5	1.2	1.0	1.4	2.0
28.....	2.2	3.3	4.1	3.7	2.0	1.8	1.7	1.5	1.2	1.0	1.3	2.8
29.....	1.8	3.0	3.7	5.0	1.8	2.4	1.7	1.5	1.2	1.0	1.3	3.2
30.....	1.7	-----	3.5	4.3	1.8	2.9	1.7	1.4	1.2	1.0	1.3	2.6
31.....	1.7	-----	3.1	-----	1.8	-----	1.6	1.4	-----	1.0	-----	2.4
Means.	1.9	2.3	3.6	2.5	2.6	2.0	1.9	1.9	1.4	1.1	1.3	1.9

a Maximum stage, 17.0.

## OHIO RIVER SYSTEM—LITTLE PIGEON RIVER, CATLETTSBURG, TENN.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1												0.5
2												0.3
3												0.9
4												0.4
5												0.4
6												0.5
7												0.5
8												0.4
9												0.4
10												0.4
11												0.4
12												0.4
13												0.4
14												0.4
15												0.4
16												0.6
17												0.5
18												0.4
19												0.4
20												0.4
21												0.4
22												0.6
23												0.4
24												0.4
25												0.5
26												0.3
27												0.4
28												0.3
29												0.3
30												0.4
31												0.5
Mean												0.4
<b>1903</b>												
1	0.4	0.4	2.8	0.9	0.7	0.7						0.5
2	0.4	0.5	1.6	0.6	0.6	0.7						0.5
3	0.7	1.0	0.8	0.5	0.6	0.7						0.5
4	0.6	6.0	0.6	2.0	0.6	0.7						0.4
5	0.5	3.0	0.6	0.7	0.6	0.7						0.5
6	0.4	1.6	0.8	0.6	0.6	0.8						0.4
7	0.4	1.6	0.9	0.6	0.6	0.7						0.4
8	0.4	2.0	1.0	a 10.2	0.6	0.6						0.4
9	0.3	1.6	2.0	7.5	0.6	0.6						0.4
10	0.3	1.0	0.9	2.0	0.5	0.6						0.4
11	0.4	1.8	0.8	1.0	0.5	1.2						0.3
12	0.6	1.8	1.0	0.8	0.5	0.9						0.3
13	0.3	1.0	0.8	1.5	0.5	0.7						0.5
14	0.3	0.8	0.6	3.4	0.5	0.6						0.4
15	0.3	0.6	0.6	2.3	0.5	0.5						0.5
16	0.4	b 1.9	0.6	2.0	0.4							0.4
17	0.4	7.8	0.5	1.0	0.5							0.4
18	0.3	2.2	0.5	0.9	0.5							0.4
19	0.3	1.8	0.5	0.8	0.5							0.4
20	0.3	1.6	0.5	0.9	0.5							0.7
21	0.3	1.5	0.6	2.0	0.5							0.6
22	0.3	1.5	0.7	1.6	0.5							0.6
23	0.3	0.5	10.0	1.0	0.4							0.5
24	0.3	0.5	7.8	0.7	0.4							0.5
25	0.4	0.5	3.0	0.6	0.4							0.6
26	0.3	0.5	0.9	0.5	0.4							1.0
27	0.3	0.5	0.7	0.5	0.3							0.6
28	0.6	10.4	0.5	0.7	0.3							0.6
29	0.5		0.5	0.6	0.4							0.6
30	0.4		1.6	0.6	0.5							0.5
31	0.4		2.0		0.7							0.5
Means.	0.4	2.0	1.5	1.6	0.5	0.7						0.5

a 12.0 at 11 a. m.

b 10.0 at 5.30 p. m.

### DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM. LITTLE PIGEON RIVER, CATLETTSBURG, TENN.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1000												
1	0.4	0.6	0.9	0.7	0.9	0.8						0.8
2	0.4	0.5	0.9	0.7	0.8	1.0						0.7
3	0.4	0.5	0.8	0.7	0.8	0.8						0.9
4	0.4	0.5	1.0	0.6	0.9	0.6						1.0
5	0.3	0.5	0.7	0.6	0.8	0.5						1.3
6	0.3	0.5	0.7	0.6	0.7	0.5						2.0
7	0.4	0.7	4.0	0.7	0.7	0.5						1.0
8	0.4	2.0	1.3	0.7	0.8	0.8						0.8
9	0.3	1.0	0.9	0.7	1.0	0.7						0.7
10.	0.3	0.9	0.8	0.7	0.9	0.6						0.8
11.	0.4	0.9	1.0	0.6	0.8	0.5						0.8
12.	0.6	0.6	0.9	0.8	0.8	0.5						0.8
13	0.8	0.5	0.8	0.7	0.7	0.5						0.7
14	1.0	0.4	0.9	0.7	0.8	0.5						0.7
15	0.9	0.5	0.9	0.7	0.8	0.5						0.7
16	0.8	0.5	0.8	0.7	0.8							0.8
17	1.5	0.5	0.7	0.7	0.7							0.8
18	1.0	0.5	0.7	0.6	0.7							0.8
19	0.8	0.7	0.8	0.6	0.6							0.8
20	0.6	0.9	0.8	0.6	0.6							0.7
21	0.6	0.9	0.8	0.8	0.6							0.7
22	0.6	1.8	1.4	0.8	0.5							0.7
23	2.0	1.7	0.1	0.7	0.5							0.6
24	0.9	1.0	5.0	0.7	0.5							0.6
25	0.7	0.8	1.6	0.6	0.5							0.8
26	0.7	0.8	1.0	0.8	0.5							0.9
27	0.7	3.0	1.5	0.8	0.5							0.9
28	0.6	0.9	1.0	0.9	0.5							2.0
29	0.7	0.9	1.0	0.9	0.4							1.0
30	0.7		0.8	1.0	0.4							0.9
31	0.6		0.7		0.6							0.8
Mean	0.7	0.9	1.3	0.7	0.7	0.6						0.9

(Chas) KINGS STERN ARDEN ROAD RIVER ASTORIA N.C.

[illegible]



## OHIO RIVER SYSTEM—FRENCH BROAD RIVER, ASHEVILLE, N. C.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	-0.6	-0.4	-0.2	0.0	-0.3	0.9	-0.2	0.8	-0.4	-0.7	-2.0	-1.9
2.....	-0.7	-0.4	-0.3	0.0	-0.3	0.7	-0.4	0.0	-0.4	-0.8	-2.0	-1.9
3.....	-0.7	-0.4	-0.2	0.0	-0.3	0.3	-0.4	-0.3	0.0	-0.8	-2.0	-1.7
4.....	-0.7	-0.4	-0.3	-0.1	0.0	0.0	-0.5	-0.7	-0.4	-0.8	-1.5	-1.7
5.....	-0.7	-0.4	-0.3	-0.1	-0.1	-0.1	-0.6	-0.3	0.4	-0.8	0.0	-1.6
6.....	-0.7	-0.5	-0.4	-0.1	-0.1	-0.2	-0.6	-0.2	-0.4	-0.8	-0.6	0.6
7.....	-0.7	-0.4	3.4	-0.1	-0.2	0.0	-0.7	-0.3	-0.5	-0.8	-1.0	0.0
8.....	-0.7	0.4	3.4	0.1	0.0	0.5	-0.7	0.0	-0.5	-0.9	-1.9	-0.6
9.....	-0.7	0.0	2.6	1.0	2.2	0.0	0.0	0.0	-0.6	-0.9	-1.9	-1.5
10.....	-0.7	-0.2	1.0	0.5	1.1	-0.1	-0.3	-0.3	-0.6	-0.9	-1.9	-1.5
11.....	-0.7	-0.2	0.7	0.2	0.6	-0.2	-0.5	0.0	-0.7	-1.0	-1.9	-1.5
12.....	-0.7	-0.4	0.5	0.1	0.3	-0.2	-0.5	0.6	-0.7	-1.0	-1.9	-1.6
13.....	-0.6	-0.4	0.3	0.0	0.0	-0.3	-0.5	0.0	-0.7	-1.0	-1.7	-1.6
14.....	-0.6	-0.4	0.4	0.0	-0.1	-0.3	-0.6	-0.3	-0.7	-1.0	-0.3	-1.7
15.....	-0.6	-0.4	0.5	-0.1	-0.1	-0.3	-0.6	-0.5	-0.7	-1.1	-0.6	-1.6
16.....	-0.6	-0.4	0.2	-0.1	-0.1	-0.4	-0.6	-0.5	-0.7	-1.1	-1.3	-1.7
17.....	-0.6	-0.5	0.0	-0.1	-0.1	-0.4	-0.7	-0.3	-0.7	-1.2	-1.7	-1.7
18.....	-0.6	-0.5	0.0	-0.1	-0.1	-0.4	-0.5	-0.4	-0.7	-1.2	-1.7	-1.8
19.....	-0.6	-0.5	0.0	-0.1	-0.2	-0.2	-0.6	-0.5	-0.7	-1.3	-1.7	-1.0
20.....	-0.6	-0.2	0.0	-0.2	-0.2	-0.2	-0.7	-0.6	-0.7	-1.3	-1.8	-1.7
21.....	-0.6	-0.2	-0.1	-0.1	-0.2	0.0	-0.7	-0.6	-0.7	-1.4	-1.8	-1.7
22.....	-0.6	1.6	0.1	-0.2	-0.3	0.0	-0.7	-0.5	-0.7	-1.5	-1.8	-1.8
23.....	1.5	1.5	0.4	-0.2	-0.3	-0.2	-0.6	-0.3	-0.7	-1.6	-1.8	-1.8
24.....	0.5	0.5	1.0	-0.2	-0.3	-0.3	-0.6	0.0	-0.8	-1.6	-1.8	-1.7
25.....	0.3	0.1	1.0	-0.3	-0.3	-0.4	-0.5	-0.3	-0.7	-1.6	-1.8	-1.8
26.....	-0.3	0.0	1.0	-0.2	-0.2	-0.4	0.0	0.0	-0.7	-1.7	-1.8	-1.8
27.....	-0.4	0.1	0.8	0.0	-0.3	-0.4	-0.6	0.5	-0.7	-1.7	-1.9	-1.6
28.....	-0.4	0.1	0.7	-0.1	-0.3	-0.4	0.0	0.4	-0.7	-1.8	-1.9	0.7
29.....	-0.4	0.0	0.5	-0.2	-0.4	0.0	-0.6	0.0	-0.7	-1.9	-1.8	0.7
30.....	-0.4		0.2	-0.2	-0.4	0.4	-0.7	-0.3	-0.7	-1.9	-1.8	-0.4
31.....	-0.4		0.1		0.8		-0.7	-0.4		-1.9		-0.4
Means.	-0.5	-0.1	0.5	0.0	0.0	-0.1	-0.5	-0.2	-0.6	-1.2	-1.6	-1.3

## OHIO RIVER SYSTEM—FRENCH BROAD RIVER, LEADVALE, TENN.

1902												
1.....				3.0	0.0	0.0					-1.0	-0.4
2.....				2.0	0.0	0.0					-1.0	0.0
3.....				1.6	0.0	0.4					-1.0	1.0
4.....				1.6	0.0	0.4					-1.0	1.8
5.....				1.6	0.0	0.0					-1.4	1.0
6.....				1.4	0.0	0.0					-1.4	0.9
7.....				1.0	0.8	0.0					0.0	1.0
8.....				1.6	0.8	1.0					0.0	0.0
9.....				1.6	0.8	1.0					-0.1	-0.2
10.....			1.8	1.6	0.6	0.6					-0.1	-0.4
11.....			1.8	1.0	0.4	0.0					-1.4	-0.5
12.....			1.6	1.0	0.4	0.0					-1.4	-0.6
13.....			1.6	0.7	0.2	0.0					-1.0	-0.6
14.....			1.6	0.6	0.6	0.0					-1.0	-0.7
15.....			1.4	0.6	0.4	0.4					-1.0	-0.8
16.....			1.4	0.6	0.7	0.6					-1.5	-0.7
17.....			4.6	0.6	0.4	2.0					-1.5	0.3
18.....			3.6	0.6	0.4	1.6					-1.2	0.0
19.....			2.4	0.6	0.6	1.0					-0.5	0.4
20.....			1.8	0.8	1.6	0.0					-0.5	-0.2
21.....			1.6	0.8	1.6	0.0					-0.5	0.2
22.....			1.2	0.6	1.0	1.0					-0.5	0.4
23.....			1.0	0.4	1.4	0.0				-1.3	-0.5	0.7
24.....			0.8	0.2	1.0	0.0				-1.4	-0.5	0.4
25.....			0.6	0.2	1.0	0.0				-1.4	-0.4	0.0
26.....			0.4	0.2	1.8	0.0				-1.4	1.0	0.0
27.....			0.4	0.1	1.6	2.0				-1.4	1.4	-0.4
28.....			0.4	0.0	1.0	2.6				-1.4	0.0	-0.4
29.....			7.0	0.0	0.6	1.0				-0.1	-0.4	-0.6
30.....			6.6	0.2	0.2	4.0				-0.1	-0.4	-0.8
31.....			4.6		0.0					-0.1		-0.2
Means.			2.2	0.9	0.6	0.7					-0.6	0.0

\*8.0 at 6 p. m.

## OHIO RIVER SYSTEM—FRENCH BROAD RIVER, LEADVALE, TENN.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1	-0.4	-0.2	6.5	5.0	-1.8	1.6	0.3	0.0	-1.0	-1.6	-1.0	-1.0
2	-0.2	0.0	5.0	4.0	-1.6	3.6	0.2	0.0	-1.2	-1.6	-1.0	-1.0
3	0.2	-0.2	3.5	3.4	-1.4	2.5	0.1	0.6	-1.4	-1.0	-1.2	-1.2
4	0.8	2.0	2.5	4.2	2.0	1.8	0.4	0.7	-1.6	-1.0	-1.1	-1.3
5	1.0	5.0	2.0	3.8	-1.8	1.6	0.4	0.6	-1.6	-1.0	-0.6	-1.4
6	0.8	3.0	2.6	3.2	-1.6	4.0	0.6	0.5	-1.4	-1.4	-0.5	-1.4
7	0.5	1.8	3.2	2.8	-1.2	5.0	0.6	0.2	-1.4	-1.6	-0.4	-1.6
8	0.4	3.8	3.0	9.0	-1.0	4.0	0.4	0.2	-1.6	-1.0	-0.4	-1.6
9	0.4	4.0	5.0	11.0	1.0	3.0	0.4	0.0	-1.6	0.0	-0.5	-1.5
10	0.0	2.6	4.6	6.3	1.0	2.2	0.1	0.0	-1.8	0.4	-0.5	-1.7
11	0.4	2.4	3.7	4.5	0.7	3.0	0.2	0.2	-1.8	0.0	-0.8	-0.3
12	1.0	4.0	4.4	3.8	0.6	2.8	0.4	0.0	-1.8	0.0	-1.0	-1.2
13	0.6	3.5	4.0	4.2	0.5	2.0	2.0	0.0	-1.6	-0.4	-1.2	-1.0
14	0.0	2.4	3.4	7.0	0.5	1.4	1.8	-0.2	-1.6	-0.6	-1.0	-0.6
15	-0.2	1.8	2.6	6.6	0.4	1.0	1.6	-0.4	-1.6	-0.4	-0.6	-0.4
16	-0.4	2.0	2.2	5.6	0.4	0.9	1.3	0.6	-1.4	-0.4	-0.6	-0.6
17	-0.6	10.0	1.8	5.0	0.4	0.7	0.2	-0.2	-1.2	0.0	0.0	-0.8
18	-0.6	6.0	1.6	4.2	0.4	0.5	0.0	0.0	-1.0	-0.2	1.0	-0.9
19	-0.8	4.0	1.4	3.8	0.2	0.4	0.4	0.0	-0.5	-0.4	1.4	-1.0
20	-0.4	2.6	1.2	3.5	0.2	0.4	0.0	-0.2	-0.6	-0.4	1.0	-0.9
21	-0.5	2.2	1.5	4.0	0.2	0.4	0.0	-0.4	-0.8	-0.4	0.5	-0.6
22	-0.4	1.8	2.4	3.4	0.1	0.3	0.0	-0.5	-1.0	-0.6	0.3	0.0
23	-0.4	1.6	11.0	3.3	0.1	1.0	-0.2	-0.6	-1.0	-0.8	0.0	0.2
24	-0.5	1.4	10.6	3.0	0.1	0.8	-0.2	-0.6	-1.0	-0.8	-0.4	-0.4
25	-0.4	1.2	7.0	2.8	0.0	0.6	-0.4	-0.7	-1.2	-1.0	-0.6	-0.6
26	-0.3	1.0	5.0	2.8	0.0	0.5	-0.4	-0.8	-1.4	-1.0	-0.8	0.0
27	-0.3	1.0	4.0	3.0	0.0	0.5	-0.5	-0.8	-1.6	-1.0	-1.0	0.4
28	-0.4	3.8	3.0	2.5	0.4	0.4	-0.6	-1.0	-1.6	-1.2	-1.0	0.2
29	-0.2		2.8	2.2	0.4	0.3	-0.6	-0.6	-1.8	-1.2	-1.0	0.0
30	0.0		4.0	2.0	0.8	0.4	-0.4	-0.6	-1.8	-1.3	-1.0	-0.2
31	-0.2		6.5		1.8		0.0	-0.8		-1.0		-0.4
Means	0.0	2.7	3.9	4.3	0.1	1.6	0.3	-0.2	-1.4	-0.7	-0.5	-0.8
<b>1904</b>												
1	-0.6	-0.2	1.2	0.9	1.0	1.0	0.6	-1.2	-1.0	-1.8	-1.6	-1.0
2	-0.4	0.0	1.0	0.6	0.6	1.0	0.4	0.0	-1.0	-1.9	-1.7	-1.1
3	-0.4	0.4	0.8	0.5	0.4	0.9	0.2	-0.2	-1.2	-1.9	-1.6	-1.0
4	0.6	0.6	1.2	0.4	-0.2	0.6	0.0	-0.4	-0.4	-2.0	-1.4	-0.8
5	-0.6	0.2	0.9	0.2	0.0	0.4	-0.2	-0.5	-0.4	-1.9	-1.3	-0.9
6	-0.8	0.0	0.7	0.0	-0.2	0.2	-0.3	-0.8	-0.5	-1.8	-1.0	0.6
7	-1.0	1.0	1.2	0.0	0.1	0.0	-0.2	-0.6	-0.8	-1.7	-1.0	1.0
8	-1.0	2.5	3.5	0.2	0.2	-0.2	-0.4	-0.6	-0.9	-1.8	-1.1	0.0
9	-1.2	1.6	3.5	0.4	1.8	-0.4	-0.6	0.0	-1.0	-1.7	-1.2	-1.4
10	-1.3	1.0	2.0	0.6	2.8	-0.4	-0.4	-0.2	-1.0	-1.7	-1.3	-1.0
11	-0.9	0.7	2.2	0.5	1.8	-0.2	-0.5	-0.4	-1.0	-1.8	-1.4	-0.8
12	0.0	0.4	1.8	0.4	1.4	-0.4	-0.2	-0.6	-1.0	-1.7	-1.2	-0.9
13	0.4	0.4	1.0	0.2	1.0	-0.6	-0.2	0.0	-1.1	-1.8	-1.0	-0.9
14	0.2	0.6	1.2	0.0	0.9	-0.8	-0.4	-0.4	-1.2	-1.9	-1.0	-1.0
15	0.0	0.7	1.0	-0.2	0.4	-1.0	-0.6	-0.4	-1.5	-2.0	-0.7	-1.2
16	-0.2	0.4	0.7	0.2	0.0	-1.1	-0.8	-0.6	-1.5	-1.9	-0.8	-1.3
17	0.0	0.0	0.4	0.0	-0.2	-1.3	-0.9	-0.3	-1.6	-1.9	-0.9	-1.1
18	0.1	-0.2	0.2	0.1	-0.3	-1.4	-1.0	-0.5	-1.2	-2.0	-1.0	-1.0
19	0.0	-0.3	0.0	-0.2	-0.4	-0.4	-1.0	-1.0	-1.2	-2.2	-1.2	-1.0
20	-0.2	0.2	0.1	-0.4	-0.5	-0.6	-1.2	-1.0	-1.2	-2.1	-1.1	-1.1
21	-0.4	0.4	0.6	-0.2	-0.6	-0.4	-1.3	-0.8	-1.2	-2.0	-1.0	-1.2
22	-0.6	0.8	2.4	0.0	-0.6	-0.2	-1.0	-0.8	-1.8	-1.9	-1.0	-1.3
23	1.0	2.0	3.0	-0.2	-0.7	-0.6	-1.0	-0.6	-1.9	-1.8	-0.6	-1.4
24	1.2	1.6	6.0	-0.3	-0.6	-0.6	-0.8	-0.6	-1.8	-1.8	-1.0	-1.0
25	1.0	1.4	4.5	-0.4	-0.9	-0.9	-1.0	-0.8	-1.7	-1.9	-0.9	-0.8
26	1.0	1.0	3.4	-0.3	-1.0	-1.0	-0.6	-0.4	-1.7	-2.0	-1.0	-0.7
27	0.7	2.6	3.0	0.0	-1.0	-0.8	-0.8	-0.6	-1.8	-1.8	-1.2	-0.6
28	0.4	2.0	2.6	1.5	-0.8	0.0	-0.6	-0.8	-1.7	-1.7	-1.3	1.0
29	0.0	2.4	1.8	1.4	-0.9	1.0	-0.8	-0.8	-1.8	-1.6	-1.3	1.0
30	-0.2		1.6	1.2	-0.6	0.7	-1.0	-0.8	-1.9	-1.5	-1.1	-0.4
31	-0.4		1.0		-0.4		-1.2	-0.9		-1.5		
Means	-0.2	0.9	1.9	0.2	0.1	-0.2	-0.6	-0.6	-1.3	-1.8	-1.1	-0.7

## OHIO RIVER SYSTEM—FRENCH BROAD RIVER, DANDRIDGE, TENN.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1												0.4
2												0.4
3												0.5
4												0.6
5												0.6
6												1.4
7												1.9
8												1.5
9												1.0
10												0.8
11												0.7
12												0.8
13												0.7
14												0.6
15												0.6
16												0.5
17												0.5
18												0.5
19												0.5
20												0.5
21												0.5
22												0.4
23												0.4
24												0.3
25												0.6
26												0.7
27												0.7
28												1.7
29												1.8
30												1.9
31												1.2
Mean												0.8

## OHIO RIVER SYSTEM—FRENCH BROAD RIVER, SINKING SPRINGS, TENN.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1902												
1				4.8	1.3	0.4						
2				3.5	1.3	0.3						
3				3.0	1.2	0.8						
4				2.8	1.0	0.4						
5				2.8	0.9	0.2						
6				2.6	1.3	0.1						
7				2.3	1.1	0.0						
8				2.3	0.9	0.4						
9				2.9	0.9	0.7						
10				2.5	1.0	0.9						
11				2.2	0.7	0.5						
12			2.0	2.0	0.5	0.1						
13			2.9	2.0	0.6	-0.1						
14			3.0	1.8	0.6	0.1						
15			2.8	1.7	0.7	0.2						
16			3.4	1.6	0.8	0.4						
17			6.7	1.7	0.7	1.7						
18			5.8	1.7	0.6	2.2						
19			4.2	1.8	0.7	1.5						
20			3.2	1.7	0.9	1.1						
21			2.9	1.8	1.8	0.6						
22			2.6	1.7	1.4	0.7						
23			2.4	1.6	1.3	0.8						
24			2.1	1.4	1.2	0.5						
25			2.0	1.3	1.1	0.2						
26			1.9	1.2	1.1	0.6						
27			1.7	1.1	1.9	1.3						
28			1.8	1.0	1.5	1.8						
29			8.3	0.9	1.0	1.7						
30			11.3	1.2	0.7	3.2						
31			7.4		0.5							
Means			4.0	2.0	1.0	0.8						

### DESCRIPTION OF RIVER GAGES, ETC.

### OHIO RIVER SYSTEM—LITTLE TENNESSEE RIVER, MCGHEE, TENN.

[illegible]

OHIO RIVER SYSTEM—HIWASSEE RIVER, CHARLESTON, TENN.

1900					
1	1.0	1.2	3.7	3.1	1.2
2	1.0	1.0	5.8	2.9	1.2
3	0.7	1.2	4.4	2.9	1.7
4	0.6	1.6	3.7	4.6	3.9
5	0.9	1.8	3.2	6.0	2.4
6	1.2	2.3	2.9	4.0	1.8
7	1.1	1.7	4.5	3.4	1.6
8	1.1	1.6	9.0	3.2	1.4
9	1.1	2.9	11.5	3.0	1.4
10	1.1	4.9	8.0	2.9	1.3
11	1.4	3.2	6.0	3.0	1.2
12	4.6	3.1	4.8	4.9	1.2
13	5.0	14.2	4.0	4.6	1.1
14	3.0	18.6	3.7	3.7	1.1
15	2.4	9.2	3.4	3.3	1.1
16	2.0	6.2	3.9	3.0	1.1
17	1.8	4.7	4.1	3.7	1.0
18	1.7	3.6	3.4	5.1	1.0
19	2.4	3.0	3.3	5.2	1.0
20	6.4	2.8	7.5	5.0	1.1
21	5.4	2.7	9.0	5.4	1.2
22	3.7	5.1	6.0	6.4	1.3
23	2.9	5.0	5.0	5.3	1.4
24	2.5	3.7	4.5	4.6	1.2
25	2.3	4.3	4.0	4.3	1.3
26	2.1	3.8	6.0	4.0	10.0
27	1.9	3.3	5.2	3.9	7.0
28	1.8	2.9	4.4	3.7	4.0
29	1.7		3.9	3.3	2.9
30	1.5		3.6	3.1	2.3
31	1.4		3.3		3.9
Means.	2.2	4.3	5.0	4.0	2.0

## OHIO RIVER SYSTEM—HIWASSEE RIVER, CHARLESTON, TENN.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	4.6	4.2	2.1	4.8							1.5	1.2
2.....	3.5	3.5	2.2	9.0							1.4	1.2
3.....	3.0	3.3	2.1	14.7							1.4	1.3
4.....	2.7	9.1	2.0	10.1							1.5	1.7
5.....	2.5	7.7	2.6	7.7							1.5	1.7
6.....	2.3	5.3	2.8	6.4							1.5	1.5
7.....	2.2	4.4	2.2	5.5							1.4	1.5
8.....	2.1	4.0	2.1	4.7							1.4	1.5
9.....	2.0	4.0	2.2	4.2							1.4	1.4
10.....	2.0	5.0	8.0	3.9							1.3	2.0
11.....	8.5	4.1	8.7	3.7							1.3	3.2
12.....	23.0	3.8	6.0	3.5							1.3	2.1
13.....	18.3	3.5	4.4	3.5							1.7	1.8
14.....	10.8	3.3	3.5	6.2							1.8	2.8
15.....	7.5	3.1	3.1	5.5							1.4	22.5
16.....	5.4	3.0	2.9	4.5							1.3	16.0
17.....	4.4	2.9	2.7	4.0							1.3	8.9
18.....	3.9	2.8	2.6	3.8							1.3	6.2
19.....	3.4	2.6	2.5	8.2							1.3	3.6
20.....	3.1	2.6	2.4	19.4							1.3	3.1
21.....	2.9	2.5	2.6	15.3							1.4	2.2
22.....	2.9	2.4	3.0	9.9							1.3	2.1
23.....	2.9	2.4	2.6	8.0							1.3	2.7
24.....	3.1	2.3	2.5	6.8							1.8	4.0
25.....	4.1	2.2	2.8	5.7							1.9	3.7
26.....	3.3	2.2	17.6	5.1							1.5	3.2
27.....	3.0	2.2	19.9	4.8							1.4	5.0
28.....	3.5	2.1	11.0	4.4							1.3	7.4
29.....	3.3		7.3	4.2							1.2	14.5
30.....	3.1		5.6	3.9							1.2	25.2
31.....	5.0		5.7									20.2
<b>Means.</b>	<b>4.9</b>	<b>3.6</b>	<b>4.8</b>	<b>6.7</b>							<b>1.4</b>	<b>5.7</b>
<b>1902</b>												
1.....	17.0	10.2	23.0	9.5							0.3	1.6
2.....	16.9	12.0	15.1	6.5							0.3	1.9
3.....	11.3	11.7	14.6	5.0							0.3	6.0
4.....	5.5	7.9	14.5	4.7							0.3	5.0
5.....	4.6	6.0	12.7	4.7							0.3	3.7
6.....	4.2	5.0	11.1	4.2							0.3	3.2
7.....	3.9	4.5	8.1	4.2							1.6	2.4
8.....	3.7	4.1	6.5	5.9							1.1	2.0
9.....	3.5	3.8	7.2	5.4							0.8	1.8
10.....	3.3	3.5	6.6	4.5							0.6	1.6
11.....	3.2	3.3	5.8	4.1							0.6	1.5
12.....	3.0	3.1	5.3	3.9							0.5	1.4
13.....	2.8	3.1	5.0	3.7							0.5	1.3
14.....	2.7	3.0	5.1	3.6							0.4	1.3
15.....	2.7	3.1	4.5	3.6							0.4	1.2
16.....	2.6	3.1	5.5	3.5							0.4	1.5
17.....	2.6	3.0	10.0	3.4							0.4	3.4
18.....	2.5	2.9	7.0	3.6							1.1	3.3
19.....	2.7	2.8	5.6	3.4							1.6	2.4
20.....	3.0	2.8	5.0	3.3							1.0	2.0
21.....	2.8	3.0	4.6	3.2							0.8	2.1
22.....	3.8	4.7	4.4	3.0							0.6	6.2
23.....	3.4	4.6	4.2	2.9							0.6	4.5
24.....	2.9	3.9	4.0	2.9							0.6	3.1
25.....	2.8	3.9	3.8	2.8							1.0	2.5
26.....	2.8	4.7	3.7	2.7							6.6	2.3
27.....	2.9	4.2	3.5	2.7							3.3	2.0
28.....	5.0	17.6	3.7	2.7							2.2	1.7
29.....	4.7		11.5	2.6							1.7	1.7
30.....	4.7		16.3	3.4							1.5	2.6
31.....	6.5		11.6									2.7
<b>Means.</b>	<b>4.6</b>	<b>5.2</b>	<b>8.0</b>	<b>4.0</b>							<b>1.1</b>	<b>2.8</b>

## OHIO RIVER SYSTEM—HIWASSEE RIVER, CHARLESTON, TENN.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	2.1	1.9	23.5	9.6	.....	.....	2.0	2.1	1.1	0.4	0.7	0.4
2.....	2.0	1.9	15.4	7.5	.....	.....	1.8	2.0	1.2	0.5	0.6	0.5
3.....	3.4	2.1	9.8	6.3	.....	.....	1.7	3.6	1.0	0.3	0.6	0.5
4.....	3.9	4.4	7.0	6.6	.....	.....	2.0	2.7	0.9	0.3	1.2	0.4
5.....	3.2	12.0	5.6	6.4	.....	.....	2.1	2.9	0.8	0.2	2.1	0.5
6.....	2.8	6.5	6.9	5.5	.....	.....	1.9	3.6	0.8	0.3	1.4	0.5
7.....	2.5	5.2	6.0	5.0	.....	.....	1.8	3.0	0.9	0.4	0.9	0.4
8.....	2.3	10.0	7.6	12.0	.....	.....	2.0	2.0	0.8	0.5	0.8	0.4
9.....	2.2	9.0	14.5	15.7	.....	.....	2.2	1.8	0.7	2.0	0.7	0.5
10.....	2.0	6.2	13.5	12.1	.....	.....	2.3	1.5	1.1	0.9	0.5	0.5
11.....	2.1	7.5	10.3	10.6	.....	.....	2.8	1.4	0.8	0.7	0.5	0.4
12.....	4.2	11.6	12.2	7.1	.....	.....	2.9	1.7	0.7	0.5	0.7	0.4
13.....	3.7	8.0	8.9	6.9	.....	.....	5.0	1.6	0.7	0.4	0.6	0.5
14.....	2.7	5.9	7.4	13.3	.....	.....	6.7	1.3	0.6	0.3	0.8	0.6
15.....	2.5	4.9	6.5	10.7	.....	.....	3.7	2.1	0.6	0.2	0.6	0.6
16.....	2.3	5.3	5.8	8.7	.....	.....	2.2	2.4	0.8	0.2	0.7	0.5
17.....	2.1	16.3	5.4	7.1	.....	.....	2.3	2.1	1.4	0.3	2.6	0.5
18.....	2.0	14.5	5.4	6.0	.....	.....	2.6	1.8	1.1	0.4	5.2	0.5
19.....	1.9	10.6	4.9	5.6	.....	.....	2.4	2.4	0.9	0.4	2.8	0.4
20.....	1.8	8.8	4.5	5.5	.....	.....	1.8	1.6	0.8	0.4	1.5	0.8
21.....	1.7	5.8	5.2	5.7	.....	.....	1.9	1.4	0.7	0.4	1.1	1.8
22.....	1.7	4.7	6.0	5.0	.....	.....	1.8	1.3	0.7	0.3	1.0	1.7
23.....	1.6	4.0	11.4	4.5	.....	.....	1.6	1.2	0.6	0.3	0.9	1.3
24.....	1.6	3.7	18.4	4.3	.....	.....	1.7	1.1	0.5	0.4	0.8	0.9
25.....	1.8	3.5	12.0	4.1	.....	.....	1.6	1.0	0.5	0.2	0.6	0.8
26.....	1.8	3.3	10.1	4.2	.....	.....	1.5	1.0	0.5	0.2	0.6	0.9
27.....	1.6	3.1	8.0	4.2	.....	.....	1.4	1.0	0.5	0.3	0.5	0.7
28.....	1.8	14.5	6.0	3.8	.....	.....	1.4	1.0	0.6	0.2	0.5	0.7
29.....	2.0	.....	5.6	3.6	.....	.....	1.4	0.9	0.5	0.3	0.4	0.7
30.....	2.1	.....	8.6	3.5	.....	.....	1.8	0.9	0.4	0.4	0.4	0.6
31.....	2.0	.....	13.9	.....	.....	.....	2.4	1.0	.....	0.5	.....	0.6
<b>Means.</b>	<b>2.3</b>	<b>7.0</b>	<b>9.2</b>	<b>7.0</b>	.....	.....	<b>2.3</b>	<b>1.8</b>	<b>0.8</b>	<b>0.4</b>	<b>1.1</b>	<b>0.7</b>
<b>1904</b>												
1.....	0.5	1.3	1.2	3.5	1.8	2.9	1.8	0.9	0.7	0.1	-0.1	1.2
2.....	0.5	1.3	1.4	2.8	1.7	2.0	1.6	2.5	0.7	0.1	-0.1	1.0
3.....	0.6	1.1	2.0	2.4	1.6	1.7	1.4	1.5	0.6	0.0	0.0	1.9
4.....	0.6	1.1	1.8	2.0	1.8	1.4	1.4	1.0	0.6	0.0	0.1	1.7
5.....	0.5	1.2	1.5	1.9	1.7	1.3	1.3	1.5	0.5	0.0	0.3	1.4
6.....	0.5	1.0	2.0	2.2	1.6	1.2	1.5	2.7	0.7	0.0	0.4	3.2
7.....	0.4	1.1	2.6	2.5	1.7	1.1	1.4	2.3	0.6	0.0	0.2	2.6
8.....	0.4	3.7	7.0	3.0	2.0	2.9	1.2	2.4	0.7	0.0	0.2	1.8
9.....	0.4	3.3	4.0	4.0	4.8	1.7	1.2	2.6	0.7	0.0	0.0	1.3
10.....	0.6	2.1	3.0	3.0	3.5	1.4	1.8	2.0	0.6	-0.1	0.0	1.0
11.....	0.7	1.5	3.0	2.5	2.5	1.3	1.6	1.9	0.5	-0.1	0.0	1.0
12.....	0.8	1.3	3.2	2.4	2.2	1.2	1.0	2.0	0.4	-0.1	0.0	1.0
13.....	1.0	1.2	2.5	2.0	2.0	1.2	1.8	1.5	0.4	-0.1	0.4	0.8
14.....	1.3	1.0	3.5	1.9	1.9	1.1	1.4	1.8	0.6	-0.2	0.3	0.8
15.....	1.2	1.0	5.0	1.9	2.0	1.1	1.0	2.2	0.5	-0.2	0.5	0.4
16.....	1.4	1.0	3.6	2.0	1.8	1.0	1.0	3.8	0.4	-0.2	0.4	0.2
17.....	2.0	0.9	3.0	1.9	1.7	1.0	0.9	2.7	0.3	-0.2	0.2	0.3
18.....	2.6	0.9	2.5	1.8	1.6	1.0	0.8	1.8	0.3	-0.2	0.2	0.3
19.....	2.0	1.0	2.4	1.7	1.5	0.9	0.7	1.2	0.2	-0.3	0.1	0.2
20.....	1.6	1.5	2.2	1.7	1.4	0.9	0.7	1.9	0.2	-0.2	0.1	0.2
21.....	1.3	2.0	2.0	1.8	1.4	1.1	0.6	1.4	0.3	-0.2	0.1	0.3
22.....	1.4	4.0	4.5	1.7	1.3	1.6	1.2	1.0	0.4	-0.2	0.2	0.2
23.....	6.4	6.5	8.0	1.6	1.3	1.8	1.6	0.8	0.5	-0.2	0.3	0.2
24.....	5.4	4.0	12.7	1.6	1.2	1.4	1.2	0.7	0.3	-0.2	0.6	0.3
25.....	2.7	2.2	10.0	1.6	1.2	1.2	1.0	1.2	0.3	-0.2	0.5	0.5
26.....	2.0	1.4	7.0	1.7	1.1	1.1	1.0	1.3	0.2	-0.2	0.3	1.0
27.....	1.5	1.2	6.0	1.8	1.3	1.5	1.2	0.9	0.3	-0.2	0.2	0.9
28.....	1.5	1.1	5.5	2.0	1.2	1.8	1.0	1.5	0.1	-0.2	0.1	5.5
29.....	1.4	1.1	4.5	2.0	1.1	2.4	1.2	1.2	0.2	-0.2	0.1	4.3
30.....	1.4	.....	3.8	1.9	1.1	2.4	1.0	1.0	0.1	-0.2	0.2	2.5
31.....	1.1	.....	3.5	.....	1.7	.....	1.2	0.8	.....	-0.2	.....	1.7
<b>Means.</b>	<b>1.5</b>	<b>1.8</b>	<b>4.0</b>	<b>2.2</b>	<b>1.8</b>	<b>1.5</b>	<b>1.2</b>	<b>1.7</b>	<b>0.4</b>	<b>-0.1</b>	<b>0.2</b>	<b>1.3</b>

## OHIO RIVER SYSTEM—TENNESSEE RIVER, KNOXVILLE, TENN.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	0.7	0.8	3.9	4.2	2.7	1.2	3.8	2.7	1.2	0.5	1.1	3.0
2.....	0.5	0.7	8.4	3.9	2.5	1.1	2.9	2.2	1.2	0.4	1.0	2.5
3.....	1.0	0.8	11.1	3.5	2.4	1.1	2.8	1.7	1.0	0.4	1.1	2.2
4.....	0.8	1.0	9.1	3.4	2.4	1.1	2.8	1.4	0.7	0.3	1.5	2.6
5.....	0.8	1.3	6.1	4.5	2.4	1.5	2.7	1.2	0.5	0.2	3.6	4.1
6.....	0.8	1.6	5.0	4.1	2.3	2.4	2.5	1.1	0.4	0.2	3.5	6.6
7.....	0.9	1.9	4.0	3.5	2.2	2.5	2.0	1.0	0.3	0.7	2.5	5.9
8.....	1.0	1.7	4.9	3.2	2.1	1.9	2.0	0.9	0.4	0.8	2.1	5.2
9.....	1.0	3.0	9.5	3.0	2.0	2.4	1.7	0.8	0.3	0.7	1.8	3.5
10.....	0.9	4.1	10.1	2.8	2.0	2.2	1.6	0.7	0.2	0.7	1.5	3.0
11.....	1.1	4.2	7.9	2.7	2.1	1.9	1.4	0.6	0.2	0.5	1.3	2.7
12.....	2.4	3.7	6.4	2.7	2.1	1.8	1.3	0.5	0.1	0.4	1.2	2.3
13.....	4.6	6.9	5.5	2.8	2.1	1.7	1.2	0.9	0.0	0.3	1.1	2.0
14.....	5.3	13.0	4.7	2.9	1.9	2.0	1.3	0.6	0.3	0.2	1.0	1.9
15.....	4.9	12.7	4.2	2.7	1.8	2.0	1.4	0.8	0.6	0.3	1.0	1.8
16.....	2.9	8.9	4.0	2.5	1.7	2.2	1.3	1.4	1.1	0.2	0.9	1.7
17.....	2.3	7.4	4.6	2.3	1.6	4.0	1.3	1.0	3.3	0.2	0.8	1.6
18.....	2.0	5.6	4.6	2.2	1.5	7.8	1.2	0.8	3.6	0.2	0.8	1.4
19.....	2.0	4.0	4.5	3.2	1.4	6.5	1.1	0.7	2.2	0.1	0.8	1.3
20.....	2.6	3.3	6.0	4.7	1.4	5.7	1.0	0.6	1.4	0.1	0.7	1.3
21.....	3.1	2.9	11.9	4.6	1.4	4.3	0.9	0.5	1.0	0.1	0.8	1.3
22.....	3.1	3.0	13.2	5.7	1.4	3.3	1.3	0.4	1.0	0.1	0.8	1.8
23.....	2.9	3.2	9.4	6.4	1.4	2.7	1.2	0.4	1.0	0.0	0.8	2.5
24.....	2.5	5.0	6.7	5.5	1.3	3.3	1.5	1.4	1.0	4.5	0.8	2.5
25.....	2.2	5.0	5.5	4.4	1.3	3.6	1.5	1.5	1.0	9.4	0.8	2.3
26.....	2.1	4.9	5.7	4.0	1.8	4.4	1.7	1.2	1.0	5.8	5.6	2.2
27.....	1.8	4.4	6.9	3.8	2.0	4.2	5.6	1.1	1.0	4.3	9.6	2.0
28.....	1.7	3.7	6.7	3.6	1.8	3.7	6.0	0.9	0.9	3.4	9.1	1.9
29.....	1.5		5.8	3.2	1.5	3.4	4.8	0.9	0.8	1.8	5.0	1.7
30.....	1.4		5.0	2.9	1.3	5.8	4.0	0.7	0.7	1.4	3.6	1.7
31.....	1.1		4.5		1.2		3.5	0.9		1.3		1.8
Means.	2.0	4.2	6.6	3.6	1.8	3.1	2.2	1.0	0.9	1.3	2.2	2.5
<b>1901</b>												
1.....	2.2	3.3	1.6	6.8	5.5	7.4	4.6	1.8	8.0	2.7	1.2	0.9
2.....	3.0	3.1	1.5	8.5	4.8	6.2	4.6	1.6	8.4	3.1	1.1	0.9
3.....	2.6	3.2	1.5	15.0	4.4	5.4	4.5	1.6	7.5	2.7	1.1	0.9
4.....	2.3	3.5	1.5	17.1	4.0	4.7	4.4	1.4	5.6	3.8	1.1	1.0
5.....	2.0	4.5	1.4	14.5	3.7	4.3	4.5	1.3	4.6	3.1	1.1	1.5
6.....	1.9	5.0	1.7	10.3	3.4	4.0	3.4	2.5	4.1	2.4	1.1	1.8
7.....	1.8	4.3	1.8	8.0	3.4	3.8	3.7	12.9	3.7	2.2	1.1	1.7
8.....	1.6	3.6	1.9	6.9	3.2	3.6	4.2	12.2	3.4	2.0	1.1	1.4
9.....	1.5	3.3	1.7	6.0	3.2	6.9	4.9	7.5	3.2	1.8	1.1	1.3
10.....	1.5	3.4	2.6	5.4	3.2	5.2	3.7	5.0	3.0	1.7	1.1	1.4
11.....	4.4	3.8	3.7	4.8	3.3	4.3	3.0	4.0	2.8	1.7	1.0	1.5
12.....	13.0	4.4	3.5	4.3	3.5	4.0	2.6	3.1	2.9	1.6	1.0	2.0
13.....	16.0	3.9	3.6	4.0	3.6	3.5	2.4	4.2	3.0	2.0	1.0	2.0
14.....	13.5	3.5	3.0	4.5	3.4	3.3	2.2	10.7	3.0	2.3	1.1	2.0
15.....	8.2	3.0	2.6	5.5	3.0	3.8	2.1	17.2	3.0	2.6	1.0	13.0
16.....	5.8	2.7	2.3	5.5	2.7	6.6	2.2	16.2	3.0	2.4	1.0	21.0
17.....	4.8	2.6	2.1	4.6	2.6	7.2	2.1	14.3	3.2	2.0	0.9	14.2
18.....	4.0	2.5	2.0	4.3	2.4	7.4	2.5	13.2	3.5	1.8	0.9	8.4
19.....	3.5	2.3	1.9	4.1	3.0	7.2	2.4	12.0	5.5	1.7	0.9	5.8
20.....	3.0	2.2	1.8	7.1	4.6	6.1	2.6	10.5	4.8	1.6	0.9	4.3
21.....	2.8	2.1	1.8	12.8	4.9	5.0	2.4	10.3	3.6	1.6	0.8	3.0
22.....	2.6	2.0	2.3	16.2	17.0	6.7	2.2	10.7	3.0	1.5	0.8	2.5
23.....	2.4	1.9	2.4	12.8	a 32.0	6.0	2.0	8.4	2.7	1.4	0.9	2.8
24.....	2.4	1.8	2.2	11.9	28.2	8.1	1.8	8.5	2.5	1.4	1.0	4.3
25.....	2.3	1.7	2.1	11.1	12.0	8.1	1.6	7.8	2.4	1.3	1.0	4.7
26.....	2.2	1.5	5.6	10.5	9.6	6.5	1.5	6.8	2.2	1.3	1.4	4.9
27.....	2.2	1.4	16.0	10.0	9.2	5.5	1.4	7.2	2.0	1.3	1.3	11.6
28.....	2.2	1.6	14.2	8.9	9.8	4.6	1.5	6.5	1.9	1.2	1.1	14.8
29.....	2.6		10.3	7.8	9.7	4.0	1.7	6.5	1.9	1.2	1.0	17.2
30.....	2.6		7.6	6.4	9.3	4.0	1.4	7.2	2.0	1.2	0.9	29.5
31.....	2.9		7.2		8.8		1.6	7.6		1.2		31.0
Means.	4.0	2.9	3.7	8.5	7.1	5.4	2.8	7.8	3.7	1.9	1.0	6.9

a 34.8 during day.

## OHIO RIVER SYSTEM—TENNESSEE RIVER, KNOXVILLE, TENN.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	19.0	10.8	a 34.4	10.8	3.1	1.8	8.0	1.2	0.4	2.0	0.8	1.7
2.....	11.4	12.2	33.1	7.9	3.0	1.8	6.7	1.2	0.3	1.6	0.7	1.5
3.....	8.7	11.8	17.1	6.7	2.9	1.7	4.9	1.8	0.4	1.4	0.7	2.1
4.....	7.4	10.2	11.3	6.1	2.6	1.8	3.6	1.6	0.5	1.3	0.4	2.7
5.....	6.4	7.9	11.8	5.7	2.5	1.6	2.8	1.2	0.7	1.0	0.4	3.4
6.....	5.6	6.3	11.2	6.0	3.0	1.5	2.5	1.0	0.8	0.9	0.5	3.1
7.....	5.1	5.4	10.3	5.9	2.7	1.4	2.1	1.4	0.9	0.8	0.5	3.3
8.....	4.7	5.0	8.3	5.5	2.5	1.5	2.1	1.6	0.8	1.0	0.9	2.9
9.....	4.5	4.5	8.1	5.6	2.6	1.6	1.9	2.3	0.7	1.0	1.0	2.3
10.....	4.3	3.9	7.8	5.4	2.5	2.2	1.8	1.6	0.7	0.8	0.9	2.0
11.....	4.0	3.6	7.4	5.0	2.3	2.1	2.1	1.1	1.4	0.6	0.8	1.8
12.....	3.8	3.5	6.9	4.7	2.1	1.8	3.3	0.9	1.4	0.7	0.7	1.7
13.....	3.5	3.4	6.5	4.5	2.0	1.6	3.6	0.8	1.2	0.8	0.6	1.6
14.....	3.2	3.2	6.1	4.3	2.0	1.4	2.5	0.6	0.9	1.6	0.5	1.5
15.....	3.0	3.1	5.8	4.1	2.2	1.6	2.4	0.6	0.8	1.7	0.5	1.5
16.....	3.0	3.0	6.0	4.0	2.2	1.7	2.0	0.8	0.8	1.5	0.5	1.7
17.....	2.9	2.9	9.3	3.9	2.3	1.8	2.1	0.7	0.8	1.3	0.4	2.2
18.....	2.9	2.9	10.6	3.9	2.1	3.3	1.6	0.8	0.7	1.0	0.5	2.7
19.....	2.9	2.8	8.7	3.9	2.0	3.6	1.4	0.8	0.5	0.9	0.8	3.1
20.....	2.8	2.6	7.0	3.8	2.3	3.4	1.3	0.7	0.8	0.7	1.1	2.6
21.....	3.0	2.8	6.1	3.8	3.0	2.4	1.2	0.6	1.8	0.6	1.1	2.6
22.....	3.6	4.0	5.6	3.9	2.9	2.2	1.2	0.7	1.5	0.6	1.0	2.8
23.....	3.8	4.7	5.1	3.7	3.1	2.4	1.2	0.8	1.1	0.5	0.9	2.8
24.....	3.4	4.6	4.8	3.5	2.8	2.0	1.0	0.9	0.9	0.3	0.8	2.9
25.....	3.1	4.2	4.5	3.3	2.4	1.7	0.9	0.8	1.3	0.3	1.4	2.5
26.....	3.0	5.7	4.2	3.2	2.4	1.5	0.8	0.6	1.1	0.3	2.0	2.0
27.....	3.9	9.0	4.0	3.0	3.3	1.9	0.8	0.5	1.9	0.3	2.6	1.9
28.....	8.3	14.8	3.9	2.8	3.3	3.6	0.8	0.4	1.8	0.3	2.8	1.7
29.....	9.3		10.0	2.8	2.8	9.8	0.9	0.4	1.6	0.4	2.3	1.5
30.....	8.9		18.5	2.9	2.3	8.6	0.9	0.4	1.2	0.6	1.9	1.4
31.....	9.6		15.8		2.0		1.2	0.4		0.8		1.7
Means.	5.5	5.7	10.0	4.7	2.6	2.5	2.2	0.9	1.0	0.9	1.0	2.2
<b>1903</b>												
1.....	1.8	2.4	14.6	10.9	5.0	3.1	1.9	1.2	0.6	-0.2	0.0	0.2
2.....	1.8	2.3	13.4	9.2	4.6	2.9	1.7	1.2	0.5	-0.2	0.0	0.2
3.....	2.0	2.3	9.7	7.6	4.3	4.7	1.5	2.0	0.4	-0.3	0.1	0.2
4.....	2.7	3.9	7.3	7.5	4.1	3.8	1.7	1.8	0.4	-0.4	0.1	0.1
5.....	5.2	9.4	5.7	8.5	4.1	3.2	1.8	2.7	0.6	-0.5	0.2	0.1
6.....	4.4	9.5	6.0	8.2	4.0	3.5	2.1	2.0	0.7	-0.5	0.2	0.1
7.....	3.8	6.8	6.1	6.8	3.6	5.9	2.2	2.0	0.4	-0.5	0.5	0.1
8.....	3.2	6.0	7.8	14.8	3.4	6.2	2.0	1.5	0.3	-0.1	0.7	0.1
9.....	2.9	7.6	11.2	b 24.1	3.2	5.5	1.9	1.2	0.3	0.1	0.6	0.1
10.....	2.5	6.7	9.9	17.8	3.1	4.4	1.6	1.0	0.3	0.1	0.4	0.1
11.....	2.2	6.0	8.2	12.0	3.0	4.6	1.4	1.1	0.3	0.8	0.3	0.1
12.....	2.3	7.0	8.1	8.9	2.8	4.7	1.7	1.6	0.6	0.7	0.2	0.1
13.....	2.9	8.6	8.8	9.2	2.6	4.2	2.2	1.5	0.3	0.3	0.2	0.2
14.....	2.7	7.7	8.3	13.9	2.6	3.4	3.0	1.3	0.2	0.2	0.3	0.1
15.....	2.2	6.0	5.8	12.8	2.6	3.0	4.3	1.8	0.3	0.2	0.3	0.1
16.....	2.2	5.7	5.8	11.7	2.6	2.6	3.0	1.2	0.2	0.2	0.3	0.2
17.....	2.3	15.6	5.2	10.6	2.6	2.4	2.2	1.4	0.2	0.1	1.0	0.3
18.....	2.2	19.9	4.7	9.8	2.4	2.2	1.9	1.8	0.2	0.1	1.9	0.2
19.....	2.0	15.8	4.3	8.4	2.3	2.1	1.9	1.7	0.7	0.2	2.5	0.2
20.....	1.9	8.9	3.9	7.4	2.1	2.1	2.2	1.7	0.6	0.2	2.2	0.2
21.....	1.8	6.9	4.0	8.0	2.0	2.0	1.7	1.6	0.5	0.2	1.6	0.5
22.....	1.6	5.8	4.3	7.6	2.0	2.1	1.5	1.2	0.4	0.2	1.0	1.0
23.....	1.7	5.0	10.9	6.7	2.0	2.0	1.2	1.0	0.2	0.1	0.9	1.4
24.....	1.8	4.5	c 24.0	6.5	2.0	2.3	1.2	0.9	0.2	0.1	0.8	1.2
25.....	1.8	4.0	20.4	5.9	1.9	2.1	1.1	0.7	0.2	0.1	0.7	1.0
26.....	1.8	3.7	13.2	5.8	1.8	1.8	0.9	0.7	0.1	0.0	0.6	1.0
27.....	1.8	3.4	9.4	5.8	1.8	1.7	0.9	0.6	0.0	0.0	0.4	1.3
28.....	1.8	8.0	7.4	7.7	1.7	2.0	0.8	0.6	0.0	0.0	0.3	1.4
29.....	1.8		6.4	6.7	1.9	1.9	0.8	0.5	-0.1	-0.1	0.2	1.5
30.....	2.0		6.9	5.7	2.5	1.9	0.8	0.6	-0.1	-0.1	0.2	1.0
31.....	2.2		9.9		3.3		1.2	0.5		-0.1		0.9
Means.	2.4	7.1	8.8	9.6	2.8	3.1	1.8	1.3	0.3	0.0	0.6	0.5

a 36.4 at 5 p. m.

b 24.6 at 12 noon.

c 24.6 at 11.30 a. m.



## OHIO RIVER SYSTEM—TENNESSEE RIVER, KNOXVILLE, TENN.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	0.8	0.8	3.8	3.8	4.5	1.1	3.1	0.7	0.6	-0.1	-0.3	0.4
2.....	0.7	0.8	3.5	3.4	3.7	2.7	2.7	0.8	0.5	-0.1	-0.3	0.4
3.....	0.5	0.7	3.3	3.1	3.1	3.1	1.9	1.5	0.5	-0.2	-0.3	0.4
4.....	0.5	0.6	3.6	2.8	2.9	2.8	1.5	1.2	1.0	-0.2	-0.2	0.4
5.....	0.5	0.6	3.2	2.6	2.7	2.1	1.3	1.4	1.0	-0.2	-0.2	0.8
6.....	0.2	0.6	2.9	2.3	3.9	1.7	1.2	1.2	1.0	-0.2	-0.2	2.3
7.....	0.1	0.7	3.4	2.2	3.3	1.4	1.4	1.3	1.2	-0.3	0.4	3.2
8.....	0.1	2.1	6.6	2.2	2.8	1.5	1.3	1.3	0.8	-0.3	0.4	3.4
9.....	0.2	2.6	8.3	2.5	3.0	1.6	1.2	1.5	0.6	-0.3	0.3	2.2
10.....	0.4	2.9	6.7	2.6	5.0	1.6	1.6	1.4	0.5	-0.3	0.2	1.6
11.....	0.4	2.5	5.4	2.7	4.8	1.3	1.5	1.5	0.4	-0.3	-0.1	1.3
12.....	0.5	2.0	4.9	2.4	3.8	1.2	1.6	1.5	0.3	-0.3	-0.2	1.0
13.....	0.6	1.7	4.2	2.2	3.2	1.4	1.6	1.7	0.2	-0.3	-0.1	1.0
14.....	0.9	1.3	3.9	2.0	2.9	1.2	1.1	1.8	0.3	-0.2	0.0	0.9
15.....	1.0	1.2	3.7	2.0	2.7	1.0	0.9	1.6	0.2	-0.3	0.2	0.9
16.....	1.0	1.1	3.5	2.0	2.4	0.9	0.8	2.1	0.2	-0.3	0.5	0.8
17.....	1.0	1.1	3.1	2.0	2.3	0.8	0.8	1.4	0.1	-0.3	0.6	0.6
18.....	1.1	1.1	2.9	2.1	2.0	0.7	0.6	1.3	0.0	-0.3	0.5	0.6
19.....	1.3	1.0	2.7	2.1	1.9	0.7	0.5	1.2	0.0	-0.3	0.3	0.5
20.....	1.4	1.6	2.6	1.9	1.8	0.9	0.5	1.0	0.0	-0.3	0.2	0.5
21.....	1.1	1.9	2.8	1.9	1.8	1.3	0.5	1.2	0.0	-0.3	0.2	0.4
22.....	1.0	2.5	4.5	1.9	1.7	1.0	0.5	1.3	0.0	-0.3	0.2	0.3
23.....	1.8	3.7	7.3	2.0	1.5	1.0	0.7	2.1	0.0	-0.3	0.2	0.2
24.....	2.6	4.8	12.0	1.9	1.4	1.0	0.9	1.6	-0.1	-0.3	0.3	0.2
25.....	3.7	4.2	12.6	1.6	1.3	1.0	0.9	1.6	-0.1	-0.4	0.4	0.5
26.....	2.8	3.2	10.1	1.7	1.2	0.8	0.8	1.5	-0.2	-0.4	0.3	0.7
27.....	2.0	5.2	8.3	1.8	1.1	1.1	0.8	1.1	-0.2	-0.4	0.3	0.9
28.....	1.5	5.3	7.1	2.5	1.1	1.1	1.7	1.0	-0.1	-0.3	0.2	3.5
29.....	1.2	4.7	6.1	4.3	1.0	1.5	1.3	1.1	-0.1	-0.3	0.0	3.4
30.....	1.1		5.0	5.4	1.0	2.3	0.9	1.0	-0.1	-0.3	0.1	3.6
31.....	0.9		4.2		1.0		0.8	0.8	-0.1	-0.3		2.5
Means.	1.1	2.2	5.2	2.5	2.5	1.4	1.2	1.3	0.3	-0.3	0.1	0.9

## OHIO RIVER SYSTEM—TENNESSEE RIVER, LOUDON, TENN.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....							2.2	1.1	0.9	-0.2	-1.0	0.5
2.....							3.2	1.4	0.8	-0.3	-1.1	0.5
3.....							2.7	1.2	0.8	-0.3	-1.0	0.7
4.....							2.1	1.2	0.9	-0.3	-0.8	1.0
5.....							2.2	1.3	0.9	-0.4	-0.6	1.4
6.....							2.5	2.0	1.5	-0.4	-0.4	2.4
7.....							2.4	1.7	1.3	-0.4	-0.3	3.0
8.....							2.2	1.6	1.2	-0.5	-0.3	2.9
9.....							1.7	1.8	1.1	-0.5	-0.3	2.5
10.....							1.5	1.7	1.0	-0.6	-0.3	2.3
11.....							1.6	2.0	0.9	-0.6	-0.2	1.9
12.....							1.5	2.6	0.8	-0.6	-0.2	1.5
13.....							1.6	2.1	0.7	-0.6	0.6	1.2
14.....							1.5	1.9	0.7	-0.6	0.6	1.1
15.....							1.3	2.0	0.6	-0.7	0.5	1.0
16.....							1.2	2.7	0.5	-0.7	0.6	1.0
17.....							1.0	2.0	0.4	-0.7	0.3	0.9
18.....							0.8	1.8	0.4	-0.8	0.4	0.8
19.....							0.8	1.6	0.2	-0.8	0.4	0.7
20.....							0.7	1.5	0.1	-0.8	0.4	0.7
21.....							0.7	1.4	0.3	-0.8	0.5	0.7
22.....							0.9	1.4	0.2	-0.8	0.5	0.7
23.....							0.9	1.6	0.2	-0.9	0.5	0.6
24.....							0.9	1.6	0.1	-0.9	0.4	0.6
25.....							1.0	1.6	0.1	-0.9	0.4	0.7
26.....							1.1	1.5	0.0	-0.9	0.4	0.7
27.....							1.0	1.5	0.0	-0.9	0.3	1.6
28.....							1.5	1.5	-0.1	-0.9	0.3	3.5
29.....							1.7	1.4	-0.2	-1.0	0.3	3.9
30.....							1.5	1.2	-0.2	-1.0	0.6	3.1
31.....							1.5	1.1		-1.0		2.7
Means.							1.5	1.6	0.5	-0.7	0.0	1.5

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—TENNESSEE RIVER, KINGSTON, TENN.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	Frozen.	1.9	5.0	5.0	3.3	1.6	4.8	3.8	1.0	1.4	1.5	4.5
2.....	Frozen.	5.0	4.4	3.1	1.6	4.0	3.5	1.3	1.4	1.5	1.5	3.7
3.....	1.8	6.2	4.2	3.0	1.6	3.5	3.5	1.5	1.2	1.5	3.2	3.2
4.....	1.8	6.8	4.0	3.0	1.7	3.4	3.4	1.4	1.2	2.0	3.0	3.0
5.....	1.7	7.1	4.4	2.5	1.8	3.2	2.5	1.4	1.0	2.1	4.7	4.7
6.....	1.9	6.3	4.9	2.3	2.3	3.0	2.0	1.2	0.9	2.8	5.5	5.5
7.....	2.2	6.0	5.1	2.3	3.0	2.6	1.8	1.0	0.9	2.6	6.5	6.5
8.....	1.5	2.5	6.5	4.2	2.5	3.2	2.6	1.5	1.0	0.8	2.5	5.9
9.....	1.8	5.5	8.7	3.5	2.5	3.0	2.5	1.3	1.0	1.2	2.0	4.6
10.....	2.0	6.5	10.0	3.4	2.5	2.5	2.5	1.3	1.0	1.4	1.8	4.0
11.....	2.3	6.0	9.7	3.4	2.6	2.5	2.5	1.0	0.9	1.0	1.6	3.6
12.....	4.8	6.0	8.1	3.7	2.4	2.3	2.0	1.0	0.9	0.9	1.5	3.1
13.....	5.5	8.7	7.5	3.8	2.3	2.2	2.0	0.8	0.9	0.9	1.5	2.8
14.....	5.8	15.0	6.5	3.5	2.3	2.0	2.0	0.8	0.8	0.8	1.4	2.6
15.....	5.5	13.6	6.0	3.3	2.2	3.1	2.0	1.0	0.8	0.8	1.4	2.5
16.....	4.8	12.0	4.8	3.0	2.2	3.8	2.0	1.2	2.1	0.8	1.4	2.4
17.....	3.5	8.7	4.8	3.2	2.2	4.2	2.0	1.0	2.5	0.9	1.4	2.3
18.....	3.1	6.3	5.1	4.0	2.2	5.8	2.0	0.9	3.0	0.9	1.3	2.2
19.....	3.0	5.0	5.5	4.5	2.2	5.5	1.7	1.0	3.3	0.8	1.3	2.1
20.....	5.0	4.2	5.4	5.0	2.1	6.0	1.6	1.0	2.4	0.8	1.2	1.9
21.....	5.4	4.0	5.4	6.1	2.0	5.3	1.5	1.1	1.0	0.8	1.2	1.9
22.....	5.2	3.7	11.9	6.5	1.7	4.0	1.5	1.1	0.7	0.8	1.4	1.8
23.....	4.6	5.0	12.3	6.5	1.6	3.5	1.4	1.0	1.8	0.9	2.5	1.8
24.....	4.1	5.3	10.1	6.0	1.6	3.5	1.8	0.8	2.0	2.0	3.5	2.9
25.....	3.6	6.1	7.0	5.1	2.0	3.6	2.0	0.8	2.0	3.0	4.0	3.1
26.....	3.0	6.8	6.5	4.5	2.0	3.3	2.0	1.0	1.8	4.8	9.0	2.7
27.....	2.8	6.2	6.3	4.5	2.0	4.5	3.0	1.1	1.6	3.8	11.1	2.6
28.....	2.6	5.8	6.6	4.2	1.8	5.3	5.5	1.3	1.6	2.9	11.8	2.4
29.....	2.5		6.8	4.0	2.0	5.0	5.5	1.3	1.5	2.1	9.7	2.2
30.....	2.3		6.8	3.5	2.0	5.0	5.4	1.2	1.5	1.8	5.9	2.4
31.....	2.2		6.0		1.6		4.0	1.2		1.7		2.6
Means.	3.6	5.7	7.0	4.4	2.3	3.4	2.8	1.5	1.5	1.4	3.1	3.1
1901												
1.....	3.3	3.9	2.0	7.5	6.3	7.4	3.8	1.7	6.5	2.5	1.5	1.6
2.....	3.2	3.7	2.0	8.5	5.5	6.3	4.0	1.9	6.3	3.0	1.5	1.5
3.....	3.0	3.6	2.0	15.0	5.0	5.4	4.3	1.8	7.4	2.8	1.5	1.5
4.....	3.0	4.6	2.0	15.2	4.7	4.8	3.8	1.8	6.4	2.6	1.5	1.7
5.....	2.9	5.8	2.0	14.8	4.4	4.4	3.4	1.7	5.0	3.0	1.6	1.9
6.....	2.6	5.6	2.4	12.0	4.0	4.0	3.2	1.8	4.4	2.7	1.5	2.0
7.....	2.2	5.5	2.2	8.4	3.8	3.9	3.4	5.9	3.9	2.5	1.5	2.0
8.....	2.1	5.1	2.1	7.6	3.7	3.9	3.8	8.7	3.7	2.3	1.4	2.1
9.....	2.0	4.6	2.0	6.6	3.6	4.6	3.6	6.6	3.3	2.3	1.4	2.3
10.....	1.9	4.3	3.4	5.9	3.5	6.0	3.4	4.5	3.2	2.2	1.4	2.3
11.....	3.5	4.0	5.8	5.2	3.5	4.9	3.7	3.5	3.1	2.0	1.4	2.7
12.....	15.2	4.6	5.5	5.0	3.5	4.0	3.0	3.0	3.0	2.0	1.5	2.5
13.....	16.7	4.5	4.9	4.8	3.5	3.7	2.9	3.5	3.4	2.0	1.5	2.4
14.....	15.4	4.2	4.5	5.7	3.5	3.4	2.8	7.0	3.4	2.5	1.5	3.4
15.....	11.7	3.9	3.9	6.5	3.5	4.0	2.4	17.5	3.3	2.7	1.6	15.5
16.....	6.8	3.6	3.5	6.6	3.4	5.5	2.4	20.9	3.3	2.5	1.5	18.6
17.....	6.0	3.4	3.2	6.3	3.4	6.2	2.3	18.2	4.3	2.5	1.5	18.7
18.....	5.1	3.2	3.0	5.7	3.4	6.0	2.2	14.7	4.9	2.3	1.5	12.2
19.....	4.5	3.0	2.9	5.9	3.4	5.8	2.0	13.0	5.8	2.1	1.5	7.2
20.....	4.0	2.9	2.8	13.6	4.0	5.6	2.3	10.4	5.3	1.9	1.5	5.0
21.....	3.6	2.7	2.8	14.4	6.5	5.0	2.3	8.8	4.6	1.8	1.5	4.0
22.....	3.3	2.6	3.5	14.7	13.6	8.1	2.2	8.2	3.9	1.7	1.4	3.8
23.....	3.1	2.5	3.0	14.4	19.5	6.4	2.1	8.8	3.5	1.7	1.4	3.0
24.....	3.0	2.3	3.0	12.3	24.5	5.0	2.0	9.0	3.0	1.7	1.6	4.2
25.....	3.0	2.2	2.9	11.3	20.2	7.0	2.0	7.9	3.0	1.6	1.7	5.0
26.....	2.9	2.1	4.4	10.9	10.0	7.0	2.0	6.7	2.9	1.6	1.7	5.0
27.....	2.9	2.1	13.1	10.4	8.0	5.6	1.9	6.0	2.9	1.6	1.7	9.9
28.....	2.8	2.0	13.8	10.2	8.0	7.7	1.9	6.6	2.7	1.5	1.6	14.8
29.....	2.8		12.8	9.0	8.0	4.2	1.8	6.0	2.6	1.5	1.6	18.5
30.....	2.7		9.0	7.4	8.1	4.0	1.8	6.0	2.5	1.5	1.6	26.7
31.....	3.5		7.9		7.8		1.7	6.4		1.5		28.8
Means.	4.8	3.7	4.5	9.4	6.9	5.3	2.7	7.4	4.0	2.1	1.5	7.4

## OHIO RIVER SYSTEM—TENNESSEE RIVER, KINGSTON, TENN.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	27.3	13.9	23.3	16.4	3.5	2.1	8.5	1.2	1.0	2.5	1.0	3.5
2.....	17.8	14.4	28.3	10.4	5.6	2.1	6.2	1.4	1.0	2.6	1.0	3.5
3.....	10.4	13.5	28.0	8.0	4.8	2.1	5.3	1.3	1.0	2.2	1.0	3.8
4.....	8.2	11.3	16.8	7.0	4.4	2.1	4.6	1.6	1.0	2.0	1.0	4.8
5.....	7.0	8.2	9.1	6.6	3.5	2.1	4.1	1.5	1.0	1.7	1.0	4.5
6.....	6.5	7.5	15.1	6.2	3.3	2.1	3.0	1.4	1.0	1.5	1.0	5.0
7.....	5.6	6.4	13.5	5.0	3.2	2.1	2.7	1.3	1.0	1.3	1.0	4.3
8.....	5.0	5.7	11.8	5.0	3.1	2.1	2.6	1.4	1.0	1.2	1.0	4.0
9.....	4.8	4.8	9.5	4.9	3.1	2.1	2.4	1.6	1.0	1.2	1.0	3.5
10.....	4.6	4.6	7.5	4.9	3.0	2.1	2.2	2.0	1.0	1.2	1.0	3.0
11.....	4.5	4.3	5.5	4.8	3.0	2.1	2.2	1.5	1.0	1.2	1.0	2.8
12.....	4.4	4.0	4.5	4.8	2.9	2.1	2.6	1.4	1.4	1.2	1.0	2.5
13.....	4.2	3.8	7.2	4.7	2.7	2.1	3.6	1.2	1.3	1.5	1.0	2.3
14.....	4.0	3.7	7.0	4.6	2.5	2.1	3.2	1.1	1.3	1.7	1.0	2.2
15.....	3.8	3.7	6.3	4.5	2.8	2.1	2.6	1.0	1.1	2.2	1.0	2.2
16.....	3.7	3.6	6.3	4.2	3.0	2.1	2.2	1.0	1.1	2.2	1.0	2.4
17.....	3.5	3.6	9.2	4.2	2.8	2.1	2.2	1.0	1.1	2.0	1.0	5.1
18.....	3.3	3.5	9.9	4.1	2.7	2.6	2.2	1.0	1.1	1.7	1.0	5.4
19.....	3.3	3.5	9.4	4.0	2.6	3.0	2.1	1.0	1.1	1.5	1.2	5.2
20.....	3.5	3.5	8.0	4.0	2.6	2.8	2.0	1.0	1.1	1.5	1.3	4.7
21.....	3.5	3.8	6.9	4.0	3.0	3.0	2.2	1.1	1.5	1.3	1.3	4.4
22.....	3.6	4.8	6.0	4.0	2.9	2.4	2.2	1.0	1.8	1.3	1.3	6.1
23.....	4.3	5.0	5.7	4.0	2.9	2.4	2.0	1.0	1.5	1.2	1.3	5.4
24.....	4.0	5.2	5.1	4.0	2.9	2.3	2.0	1.0	1.3	1.2	1.3	4.7
25.....	3.9	6.1	4.9	3.8	2.7	2.2	1.9	1.0	2.0	1.2	1.5	4.3
26.....	3.7	6.5	4.7	3.7	2.5	2.2	1.9	1.0	2.0	1.1	4.2	3.8
27.....	4.8	7.1	4.5	3.5	2.3	2.4	1.7	1.0	2.2	1.1	3.9	3.3
28.....	8.8	10.9	4.2	3.4	3.1	2.7	1.5	1.0	2.3	1.1	3.9	2.9
29.....	10.2	.....	18.0	3.3	2.9	3.1	1.4	1.0	2.5	1.1	3.7	2.6
30.....	13.5	.....	21.8	3.3	2.6	7.2	1.2	1.0	2.2	1.0	3.1	2.8
31.....	12.8	.....	20.5	.....	2.3	.....	1.2	1.0	.....	1.0	.....	3.0
<b>Means.</b>	<b>6.7</b>	<b>6.3</b>	<b>10.9</b>	<b>5.2</b>	<b>3.1</b>	<b>2.5</b>	<b>2.8</b>	<b>1.2</b>	<b>1.4</b>	<b>1.5</b>	<b>1.5</b>	<b>3.8</b>
<b>1903</b>												
1.....	2.9	2.6	19.1	10.1	5.4	4.2	2.3	1.7	1.1	0.5	0.8	0.8
2.....	2.9	2.6	15.0	9.0	5.0	5.2	2.2	1.8	1.1	0.5	0.8	0.8
3.....	3.5	3.0	13.9	7.9	4.8	6.0	2.1	2.0	1.1	0.5	0.9	0.8
4.....	4.3	7.0	10.2	7.3	4.6	6.8	2.1	2.5	1.0	0.5	0.9	0.8
5.....	4.5	9.7	7.6	8.0	4.4	4.7	2.3	2.0	1.0	0.5	0.9	0.8
6.....	5.6	10.9	7.1	7.6	4.1	4.8	3.2	2.4	1.0	0.5	1.0	0.8
7.....	5.7	10.3	8.3	6.8	4.0	7.4	2.7	2.5	1.0	0.5	1.0	0.8
8.....	4.5	8.6	9.7	12.4	3.9	6.6	2.4	2.3	1.0	0.5	1.0	0.8
9.....	4.0	8.7	14.1	22.6	3.7	6.0	2.4	2.0	1.0	0.7	1.0	0.8
10.....	3.5	7.9	14.0	21.4	3.5	5.0	2.3	1.5	1.0	1.2	0.9	0.9
11.....	3.2	7.4	12.6	16.1	3.2	4.1	2.0	2.0	1.0	1.0	0.9	0.9
12.....	3.7	9.1	10.9	10.9	3.1	5.0	2.0	2.0	1.0	1.0	0.9	0.9
13.....	4.6	9.0	10.0	9.0	3.1	4.4	2.5	2.0	1.0	0.8	0.9	0.9
14.....	4.2	8.5	9.2	12.3	3.1	4.1	3.0	2.0	1.0	0.8	0.9	0.9
15.....	4.0	7.4	8.1	14.2	3.0	3.3	3.2	2.4	1.0	0.8	0.9	0.9
16.....	3.6	7.1	7.3	14.1	3.0	3.0	3.5	2.7	1.0	0.8	0.9	0.9
17.....	3.5	15.4	6.1	12.5	3.0	2.8	3.0	2.0	1.0	0.8	1.1	0.8
18.....	3.3	19.6	4.8	10.8	2.9	2.6	2.8	2.3	1.0	0.8	4.2	0.8
19.....	3.1	19.2	4.6	9.3	2.8	2.5	2.5	2.3	1.0	0.8	3.6	0.8
20.....	2.8	13.9	4.4	8.1	2.6	2.6	2.4	2.0	1.0	0.8	3.0	1.0
21.....	2.7	8.9	4.1	8.4	2.5	2.7	2.4	2.0	1.0	0.8	2.5	3.8
22.....	2.6	7.6	4.0	8.9	2.4	2.7	2.1	2.0	1.0	0.8	2.0	3.1
23.....	2.5	6.3	7.2	8.0	2.4	2.8	2.0	1.7	1.0	0.8	1.6	2.8
24.....	2.3	5.6	18.1	7.3	2.3	2.7	2.0	1.4	0.7	0.8	1.4	2.4
25.....	2.5	5.0	20.2	6.5	2.2	2.4	1.8	1.4	0.7	0.8	1.2	2.4
26.....	2.6	4.8	17.0	6.3	2.1	2.4	1.5	1.4	0.7	0.8	1.1	2.4
27.....	2.7	4.3	11.3	6.0	2.0	2.2	1.3	1.4	0.7	0.8	1.0	2.8
28.....	3.0	13.5	8.5	6.0	2.0	2.4	1.2	1.4	0.7	0.8	1.0	3.0
29.....	3.2	.....	6.7	6.4	2.0	2.4	1.1	1.3	0.6	0.6	1.0	2.6
30.....	3.0	.....	7.2	6.0	2.9	2.4	1.1	1.2	0.6	0.6	0.9	2.6
31.....	2.8	.....	9.6	.....	3.5	.....	1.4	1.1	.....	0.9	.....	2.1
<b>Means.</b>	<b>3.5</b>	<b>8.7</b>	<b>10.0</b>	<b>10.0</b>	<b>3.2</b>	<b>3.9</b>	<b>2.2</b>	<b>1.9</b>	<b>0.9</b>	<b>0.7</b>	<b>1.3</b>	<b>1.5</b>

a 23.4 at 3 p. m.

## OHIO RIVER SYSTEM—TENNESSEE RIVER, KINGSTON, TENN.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	2.1	2.1	6.0	5.1	5.5	2.4	2.5	1.5	1.2	0.4	0.3	0.9
2.....	2.0	2.0	5.7	5.6	4.8	2.8	2.6	1.4	1.2	0.4	0.3	1.1
3.....	1.7	1.9	4.4	4.1	4.0	3.0	2.9	1.4	1.2	0.4	0.3	1.3
4.....	1.3	1.7	4.2	3.9	3.7	3.7	2.7	1.7	1.3	0.4	0.3	1.3
5.....	1.3	1.5	4.2	3.7	3.7	3.6	2.6	1.8	1.4	0.4	0.3	1.5
6.....	1.3	1.5	3.8	3.1	3.5	3.2	2.0	1.8	1.7	0.7	0.4	2.7
7.....	1.2	1.5	4.5	3.1	3.5	2.8	1.8	1.9	1.6	0.7	0.5	2.9
8.....	1.2	2.8	7.6	3.2	3.8	2.4	1.8	1.9	1.6	0.7	0.5	4.2
9.....	1.2	3.5	7.7	3.4	4.0	2.4	1.8	1.8	1.4	0.4	0.7	3.8
10.....	1.2	3.4	7.3	3.6	4.5	2.4	2.0	2.0	1.4	0.4	0.6	2.1
11.....	1.1	3.2	6.5	3.4	4.9	2.2	2.0	2.0	1.0	0.4	0.6	2.9
12.....	1.3	3.2	5.9	3.3	4.5	2.0	2.1	2.6	1.0	0.4	0.6	2.0
13.....	1.3	2.9	5.2	3.0	4.3	1.9	2.8	2.2	1.0	0.4	0.5	2.0
14.....	1.5	2.6	5.0	3.0	3.6	1.9	2.6	2.0	0.8	0.4	0.5	1.9
15.....	1.5	2.3	5.5	3.0	3.3	1.9	2.4	2.0	0.7	0.4	0.5	1.8
16.....	1.7	2.3	5.1	2.9	3.0	1.8	2.2	2.7	0.7	0.4	0.7	1.6
17.....	2.1	2.1	4.5	2.9	3.0	1.7	1.9	2.4	0.6	0.3	0.8	1.6
18.....	2.7	2.0	4.4	2.9	3.0	1.7	1.7	2.0	0.6	0.3	0.9	1.5
19.....	2.5	2.0	4.0	2.9	2.9	1.6	1.6	1.7	0.6	0.3	0.9	1.5
20.....	2.4	2.3	4.0	2.8	2.7	1.6	1.5	1.6	0.6	0.3	0.5	1.5
21.....	2.3	2.9	4.0	2.8	2.5	1.5	1.4	1.4	0.6	0.3	0.7	1.5
22.....	2.3	3.0	8.0	2.6	2.4	1.9	1.4	1.6	0.6	0.3	0.7	1.0
23.....	6.1	4.8	8.3	2.6	2.3	1.8	1.4	1.5	0.6	0.3	0.7	1.0
24.....	5.9	5.0	13.0	2.6	2.1	1.8	1.5	2.1	0.6	0.3	0.7	1.0
25.....	5.2	5.2	13.1	2.6	2.1	1.7	1.5	2.0	0.5	0.3	0.9	1.5
26.....	4.9	4.6	12.7	2.5	2.0	1.7	1.4	1.9	0.5	0.3	0.9	2.6
27.....	4.4	5.1	10.5	2.8	2.0	1.8	1.4	1.8	0.5	0.3	0.7	3.3
28.....	3.2	6.8	9.0	3.0	1.9	2.0	1.3	1.7	0.5	0.3	0.7	7.1
29.....	2.8	5.5	7.7	3.1	1.9	2.1	1.3	1.4	0.4	0.3	0.7	6.5
30.....	2.5	.....	6.8	4.5	1.8	2.4	1.6	1.4	0.4	0.3	0.7	5.2
31.....	2.3	.....	6.0	.....	2.0	.....	1.5	1.3	.....	0.3	.....	4.7
Means.	2.4	3.1	6.6	3.3	3.2	2.2	1.9	1.8	0.9	0.4	0.3	2.4

## OHIO RIVER SYSTEM—TENNESSEE RIVER, CHATTANOOGA, TENN.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	3.2	3.3	8.1	8.0	6.4	2.9	8.8	6.2	2.1	2.0	2.9	8.7
2.....	Frozen.	3.0	8.3	7.3	5.7	2.8	8.5	5.4	2.0	1.8	2.6	6.5
3.....	.....	2.7	10.4	6.9	5.4	2.9	7.1	4.7	2.3	1.7	2.5	5.6
4.....	.....	2.5	12.2	6.9	5.2	3.2	6.4	4.2	2.5	1.5	2.9	5.1
5.....	.....	2.7	13.0	8.0	5.0	3.1	5.9	3.6	2.3	1.4	3.3	5.6
6.....	.....	3.4	11.1	8.6	4.8	3.6	5.5	3.2	2.0	1.3	3.7	6.9
7.....	2.2	3.9	9.8	8.0	4.7	4.6	5.1	2.9	1.7	1.3	4.2	8.3
8.....	2.3	3.9	11.1	7.2	4.5	6.6	4.6	2.6	1.6	1.6	4.2	9.2
9.....	2.3	4.8	14.1	6.6	4.4	6.4	4.2	2.4	1.4	1.8	3.7	8.5
10.....	2.4	7.8	16.3	6.2	4.4	5.4	4.1	2.3	1.3	2.1	3.2	7.0
11.....	2.9	9.5	16.4	6.2	4.3	5.0	4.3	2.1	1.2	2.1	3.0	6.1
12.....	5.6	8.9	14.8	7.4	4.3	5.0	3.8	2.0	1.1	2.5	2.7	5.4
13.....	7.7	12.1	12.1	7.5	4.2	4.5	3.4	1.9	1.0	3.0	2.5	4.9
14.....	8.8	20.1	10.2	7.1	4.0	5.0	3.3	1.9	1.1	2.5	2.3	4.5
15.....	8.5	24.3	8.8	6.6	3.9	5.5	3.3	2.1	1.8	1.9	2.2	4.3
16.....	8.1	22.1	8.1	6.2	3.8	5.1	3.3	2.2	3.1	1.8	2.1	4.2
17.....	6.6	18.1	7.8	8.0	3.6	5.4	3.2	2.3	4.0	1.6	2.0	4.0
18.....	5.6	12.9	7.6	10.8	3.5	5.9	3.1	2.3	4.1	1.5	2.0	3.6
19.....	5.4	9.7	7.5	10.0	3.4	8.5	3.0	2.3	4.6	1.4	1.9	3.4
20.....	8.1	7.9	8.1	9.1	3.4	9.3	2.9	2.2	4.7	1.3	1.9	3.3
21.....	9.4	7.2	10.9	11.5	3.3	9.1	2.7	1.9	3.9	1.2	2.1	3.3
22.....	9.1	7.6	14.3	12.1	3.2	8.0	2.5	1.8	3.0	1.2	2.2	4.0
23.....	8.1	8.3	17.1	11.5	3.0	6.6	2.5	1.7	2.6	1.4	2.3	4.2
24.....	7.6	8.7	17.2	10.8	3.0	6.2	2.8	1.8	2.4	2.2	2.8	4.7
25.....	6.3	8.4	13.3	10.0	3.1	6.9	3.0	1.9	2.7	4.1	3.2	5.2
26.....	5.6	9.3	11.3	8.7	3.2	7.6	3.1	2.5	2.7	7.0	7.8	5.4
27.....	5.1	9.5	10.9	7.9	3.3	8.0	3.3	3.1	2.6	7.5	13.9	5.2
28.....	4.7	8.6	10.8	7.5	3.6	8.2	4.6	2.7	2.4	6.0	15.6	4.6
29.....	4.3	.....	10.4	7.2	3.6	8.6	8.0	2.5	2.3	4.9	15.6	4.3
30.....	4.0	.....	9.6	6.7	3.4	8.6	8.2	2.3	2.2	3.7	13.2	4.2
31.....	3.6	.....	8.7	.....	3.1	.....	7.3	2.2	.....	3.4	.....	4.5
Means.	5.7	9.0	11.3	8.2	4.0	6.0	4.6	2.7	2.4	2.5	4.5	5.3

## OHIO RIVER SYSTEM—TENNESSEE RIVER, CHATTANOOGA, TENN.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	5.2	6.5	3.7	12.4	10.8	12.0	6.0	2.8	9.9	4.2	2.6	2.3
2.....	5.7	6.7	3.7	13.2	9.3	11.1	5.9	2.8	9.8	4.5	2.6	2.2
3.....	5.8	7.2	3.7	19.7	8.5	9.8	6.3	2.9	9.7	4.6	2.5	2.3
4.....	5.6	8.7	3.7	24.1	7.6	8.5	6.4	2.8	10.3	4.5	2.5	2.5
5.....	5.1	10.1	3.8	23.9	7.0	7.7	6.0	2.6	9.4	4.4	2.5	2.5
6.....	4.7	10.0	4.0	22.4	6.7	6.9	5.2	2.6	7.9	4.8	2.5	2.5
7.....	4.4	9.4	4.1	18.9	6.4	6.9	5.1	3.2	6.9	4.5	2.4	3.0
8.....	4.1	8.9	4.1	14.2	6.2	6.9	5.4	9.1	6.4	4.1	2.4	3.2
9.....	3.9	8.5	4.0	11.8	5.9	6.5	5.6	12.2	5.9	3.9	2.4	3.2
10.....	3.8	7.7	7.0	10.3	5.6	6.9	6.3	9.9	5.5	3.7	2.4	3.5
11.....	6.1	7.6	9.8	9.2	5.6	8.2	6.6	7.3	5.3	3.4	2.4	3.5
12.....	15.4	7.0	11.2	8.4	5.4	7.4	5.6	5.8	5.1	3.4	2.4	4.0
13.....	26.6	7.1	9.7	7.9	5.6	6.4	5.0	5.3	5.7	3.5	2.5	4.1
14.....	28.1	7.2	8.2	6.8	5.5	6.1	4.4	5.5	5.9	4.0	2.5	4.7
15.....	25.3	7.0	7.3	9.8	5.5	6.4	4.1	14.0	6.0	4.3	2.5	17.9
16.....	19.5	6.4	6.4	10.3	5.4	7.5	3.6	27.3	6.1	4.1	2.5	26.8
17.....	12.7	5.8	5.8	10.2	5.2	8.9	3.7	32.8	6.3	4.1	2.4	28.6
18.....	9.7	5.3	5.4	9.6	4.9	9.8	3.9	32.6	8.8	4.0	2.4	26.7
19.....	8.1	5.1	5.0	10.8	5.3	9.3	3.7	28.6	9.9	3.7	2.3	19.9
20.....	7.2	5.0	4.7	21.1	8.0	8.9	3.7	23.4	9.3	3.3	2.3	11.4
21.....	6.4	4.9	4.7	26.5	10.2	8.4	4.2	18.6	8.3	3.1	2.2	8.3
22.....	5.9	4.7	4.8	24.7	20.2	7.7	3.9	17.0	7.4	3.1	2.1	6.6
23.....	5.4	4.5	5.2	23.0	26.5	10.1	3.7	16.5	6.4	3.1	2.2	5.7
24.....	5.6	4.4	5.0	22.2	29.7	9.5	3.5	18.5	5.6	3.0	2.5	5.8
25.....	5.8	4.2	5.0	19.0	32.4	7.6	3.1	16.5	5.2	3.0	2.5	6.9
26.....	5.8	4.1	7.7	17.1	32.5	9.6	3.0	13.1	4.9	2.9	2.5	7.9
27.....	5.4	3.8	15.9	14.9	23.5	9.8	2.9	11.0	4.6	2.8	2.6	10.2
28.....	5.2	3.7	22.3	14.9	13.5	8.4	2.9	10.3	4.4	2.7	2.5	16.0
29.....	5.2	-----	21.7	14.5	12.1	7.2	2.8	10.7	4.4	2.6	2.5	24.0
30.....	5.2	-----	18.4	13.8	11.9	6.4	2.8	10.0	4.3	2.5	2.4	32.0
31.....	5.5	-----	14.7	-----	12.3	-----	2.8	9.8	-----	2.5	-----	37.4
Means.	8.7	6.5	7.8	15.5	11.5	8.2	4.5	12.5	6.9	3.6	2.4	10.8
<b>1902</b>												
1.....	40.1	20.1	24.0	30.9	5.6	4.0	9.8	2.2	1.4	3.9	1.3	5.2
2.....	40.8	21.8	31.9	27.0	8.5	3.8	10.2	2.0	1.2	3.7	1.3	5.1
3.....	37.6	23.2	35.8	18.0	9.3	3.6	8.8	2.1	1.2	3.9	1.4	6.7
4.....	26.8	21.7	38.0	12.3	8.0	3.5	7.5	2.4	1.5	3.3	1.5	7.4
5.....	15.0	18.0	35.9	10.7	6.8	3.4	6.5	2.4	1.3	3.0	1.5	7.8
6.....	10.9	14.5	30.3	10.0	6.0	3.4	5.5	2.8	1.4	2.8	1.5	7.5
7.....	9.7	11.7	25.5	9.5	5.6	3.2	4.5	2.5	1.5	2.4	1.4	7.5
8.....	8.9	10.0	20.7	9.8	5.6	3.2	4.0	2.1	1.5	2.1	1.8	6.6
9.....	8.0	8.8	17.9	9.9	5.5	3.3	3.7	1.9	1.5	2.0	2.2	6.0
10.....	7.7	8.1	15.6	9.5	5.2	3.4	3.5	2.2	1.5	1.9	2.1	5.3
11.....	7.3	7.5	14.2	8.9	5.0	3.2	3.4	2.8	1.4	2.2	1.9	4.7
12.....	6.9	6.9	12.9	8.4	4.8	3.4	3.4	2.7	1.5	2.9	1.8	4.2
13.....	6.5	6.4	12.1	8.0	4.6	3.5	3.6	2.4	1.9	2.7	1.8	3.9
14.....	6.2	6.0	11.2	7.5	4.5	3.3	4.8	2.0	2.1	2.7	1.6	3.6
15.....	5.8	6.0	10.5	7.3	4.5	3.1	5.0	1.7	2.0	3.3	1.5	3.4
16.....	5.5	6.1	10.0	7.1	4.6	3.0	4.2	1.6	1.9	3.4	1.4	3.5
17.....	5.3	6.0	12.2	6.9	4.7	3.0	3.8	1.5	1.8	3.5	1.4	4.8
18.....	5.1	5.8	14.5	6.8	4.5	3.0	3.3	1.5	1.5	3.0	1.4	7.4
19.....	5.1	5.6	14.9	6.7	4.5	4.0	3.1	1.5	1.4	2.8	1.7	7.8
20.....	5.2	5.5	14.1	6.6	4.4	4.5	2.9	1.4	1.4	2.6	1.9	7.2
21.....	5.4	5.2	12.3	6.5	4.4	4.6	2.6	1.5	1.4	2.2	2.1	7.0
22.....	6.2	5.7	10.6	6.3	4.5	4.4	2.7	1.6	2.0	2.0	1.9	8.7
23.....	6.5	6.8	9.5	6.1	4.8	4.0	2.9	1.6	2.6	1.8	1.9	9.6
24.....	6.7	7.9	8.9	6.0	4.6	3.9	2.6	1.5	2.6	1.8	2.0	8.7
25.....	6.6	8.1	8.3	5.9	4.6	3.7	2.3	1.4	2.8	1.6	2.1	7.2
26.....	6.1	8.5	7.8	5.7	4.5	3.5	2.0	1.4	3.3	1.5	3.5	6.5
27.....	6.3	8.6	7.5	5.5	4.2	4.0	2.0	1.5	3.6	1.4	6.1	5.7
28.....	8.5	13.3	7.2	5.4	4.0	3.9	1.9	1.5	3.6	1.4	6.3	5.1
29.....	12.6	-----	12.9	5.2	4.4	4.0	1.9	1.6	3.6	1.3	5.8	4.5
30.....	15.8	-----	26.5	5.2	4.5	5.0	2.0	1.9	3.5	1.2	5.4	4.3
31.....	18.9	-----	30.8	-----	4.3	-----	2.3	1.7	-----	1.2	-----	4.6
Means.	11.7	10.1	17.6	9.3	5.2	3.7	4.1	1.9	2.0	2.4	2.3	6.0

\*39.5 at 11 p. m.

## OHIO RIVER SYSTEM—TENNESSEE RIVER, CHATTANOOGA, TENN.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1908</b>												
1.....	4.7	4.8	26.5	17.4	9.0	6.5	4.1	2.8	1.7	0.6	0.8	1.1
2.....	4.5	4.9	31.0	16.6	8.3	8.2	3.8	2.6	1.6	0.6	0.9	1.1
3.....	5.3	5.1	29.2	14.8	7.8	11.6	3.7	2.9	1.4	0.6	1.1	1.1
4.....	6.1	7.6	23.6	13.0	7.3	11.5	3.6	3.8	1.4	0.6	1.2	1.0
5.....	6.9	15.4	16.5	12.3	7.0	10.1	3.6	3.8	1.3	0.6	1.8	1.0
6.....	6.8	19.6	13.1	12.4	6.7	9.3	3.8	4.2	1.3	0.6	1.8	0.9
7.....	8.2	17.5	12.3	11.9	6.6	9.8	3.9	4.9	1.3	0.6	1.5	1.0
8.....	7.6	18.0	14.6	15.5	6.3	11.2	3.8	4.2	1.3	0.8	1.4	0.9
9.....	6.7	17.2	20.7	24.5	6.0	10.5	4.0	3.6	1.3	1.0	1.3	1.0
10.....	6.0	15.3	24.2	30.3	5.8	9.0	4.0	3.0	1.2	1.5	1.3	0.9
11.....	5.5	14.4	23.9	31.8	5.6	8.7	3.9	2.6	1.2	1.4	1.3	0.9
12.....	6.2	16.0	21.0	28.0	5.4	7.8	3.8	2.7	1.1	1.3	1.3	0.9
13.....	7.1	16.3	18.3	19.7	5.2	8.0	4.1	3.3	1.1	1.2	1.3	1.0
14.....	7.2	14.8	16.2	17.5	5.0	7.1	5.7	2.9	1.1	1.2	1.3	0.9
15.....	6.5	13.6	14.9	20.4	4.9	6.3	5.5	3.2	1.2	1.0	1.2	0.9
16.....	6.0	12.3	13.6	21.9	4.8	5.6	5.4	3.8	1.1	0.9	1.2	1.0
17.....	5.8	18.4	11.9	21.2	4.7	5.1	5.6	4.1	1.0	1.0	1.5	1.2
18.....	5.4	25.9	10.7	18.8	4.6	4.7	5.1	3.8	1.2	1.0	3.6	1.1
19.....	5.1	29.1	9.8	16.1	4.5	4.4	4.7	3.4	1.3	1.0	5.6	1.0
20.....	4.8	29.0	9.0	14.2	4.3	4.3	4.1	3.8	1.3	0.9	5.8	1.4
21.....	4.5	24.4	9.0	13.2	4.2	4.3	3.8	3.3	1.1	0.9	4.6	3.0
22.....	4.4	15.4	9.0	13.0	4.1	4.3	4.0	3.0	1.2	0.9	3.8	4.7
23.....	4.2	11.3	10.0	13.0	4.0	4.3	3.6	2.9	1.2	0.9	3.1	4.4
24.....	4.0	9.9	16.7	11.8	4.0	4.3	3.2	2.5	1.1	0.8	2.5	3.7
25.....	4.0	8.8	25.8	10.8	3.8	4.2	2.9	2.2	1.0	0.8	2.1	3.7
26.....	4.2	8.0	28.8	10.1	3.8	4.1	2.7	2.0	1.0	0.7	1.8	3.4
27.....	4.3	7.5	27.3	9.6	3.6	4.1	2.6	1.8	0.8	0.7	1.6	3.1
28.....	4.4	12.7	20.1	9.2	3.5	4.5	2.4	1.7	0.7	0.6	1.5	3.7
29.....	4.5		13.8	9.2	3.5	4.7	2.3	1.6	0.7	0.6	1.3	3.8
30.....	4.7		13.1	9.6	3.8	4.5	2.3	1.6	0.6	0.6	1.2	3.8
31.....	4.8		16.0		4.7		2.2	1.8		0.7		3.7
Means.....	5.5	14.8	17.8	16.3	5.3	6.8	3.8	3.0	1.2	0.9	2.0	2.0
<b>1904</b>												
1.....	3.1	3.4	8.1	9.0	6.0	4.3	3.6	2.2	2.2	0.7	0.1	1.1
2.....	2.6	3.1	7.4	8.1	7.6	4.1	3.7	2.2	2.0	0.7	0.1	1.4
3.....	2.3	2.8	7.0	7.2	6.7	4.3	4.3	2.6	1.8	0.6	0.2	1.7
4.....	2.2	2.7	6.6	6.6	5.8	4.4	4.0	2.4	1.8	0.5	0.4	2.2
5.....	2.0	2.5	6.1	6.0	5.4	4.9	3.9	2.6	1.7	0.4	0.5	2.1
6.....	2.0	2.4	6.2	5.6	5.2	4.9	3.4	2.9	1.7	0.5	0.5	3.5
7.....	1.7	2.3	6.1	5.4	4.9	4.5	3.1	3.7	2.2	0.4	0.6	4.4
8.....	1.6	3.6	8.0	5.4	5.4	3.8	2.9	3.7	2.4	0.3	0.6	5.8
9.....	1.5	4.8	11.0	5.8	5.6	3.7	2.7	3.3	2.2	0.2	0.6	5.7
10.....	1.6	5.9	11.3	5.9	6.4	3.7	2.9	3.3	2.0	0.3	0.9	5.4
11.....	1.7	5.4	11.1	6.0	7.0	3.4	2.9	3.3	1.8	0.3	0.9	4.2
12.....	1.7	5.5	10.1	5.6	7.2	3.2	3.1	3.3	1.6	0.3	0.9	3.5
13.....	1.9	4.9	9.0	5.3	6.6	2.8	3.1	4.1	1.4	0.3	0.8	3.0
14.....	2.1	4.4	8.5	4.9	5.7	2.6	3.6	3.7	1.3	0.2	0.6	2.7
15.....	2.3	2.9	9.1	4.7	5.4	2.5	3.4	3.3	1.2	0.2	0.6	2.5
16.....	2.5	3.6	8.9	4.4	5.2	2.5	3.0	3.3	1.1	0.2	0.7	2.4
17.....	2.6	3.5	8.1	4.3	4.9	2.4	2.6	4.1	1.0	0.2	0.8	2.3
18.....	2.9	2.3	7.1	4.3	4.5	2.2	2.4	3.9	1.0	0.2	0.9	2.1
19.....	2.9	3.1	6.6	4.3	4.3	2.1	2.2	3.1	0.9	0.2	1.0	2.0
20.....	2.8	3.2	6.1	4.2	4.1	2.0	2.1	2.7	0.9	0.2	1.1	1.8
21.....	3.6	3.7	5.8	4.1	3.8	2.0	1.8	2.4	0.9	0.1	1.0	1.7
22.....	3.6	3.2	7.4	4.0	3.6	2.1	1.7	2.4	0.8	0.1	1.0	1.6
23.....	3.0	3.3	12.9	4.0	3.5	2.6	1.9	2.2	0.8	0.1	0.9	1.5
24.....	10.6	7.9	18.2	4.0	3.4	2.7	2.2	2.2	0.8	0.1	1.0	1.4
25.....	9.2	6.1	21.5	4.0	3.1	2.3	2.1	2.9	0.8	0.1	1.0	1.4
26.....	7.5	7.9	20.9	3.8	2.9	2.3	2.0	2.0	0.7	0.1	1.0	2.0
27.....	7.1	7.1	19.1	3.7	2.6	2.2	2.2	2.8	0.6	0.1	1.1	3.0
28.....	5.8	7.3	18.9	4.1	2.7	2.2	2.4	2.8	0.6	0.1	1.0	7.3
29.....	4.8	9.0	14.0	4.8	2.7	2.7	2.1	2.6	0.6	0.1	1.0	10.2
30.....	4.5		11.8	4.7	2.6	2.4	2.6	2.5	0.6	0.1	1.0	9.6
31.....	3.8		10.3		2.0		2.9	2.3		0.1		7.6
Means.....	3.6	4.7	10.4	5.1	4.8	3.1	2.8	3.0	1.3	0.3	0.8	3.5

\* 3.1 at 12 noon.

\* 2.3 at 4 p.m.

\* 2.1 at 12 noon.

## OHIO RIVER SYSTEM—TENNESSEE RIVER, BRIDGEPORT, ALA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	2.4	2.0	6.5	6.5	4.9	1.7	6.8	5.0	0.8	1.0	1.5	8.3
2.....	1.8	1.8	6.5	6.0	4.3	1.4	6.9	4.0	0.8	0.9	1.4	5.5
3.....	1.7	1.6	7.5	5.0	4.0	1.3	5.9	3.0	0.8	0.6	1.4	4.1
4.....	0.7	1.3	9.2	5.0	3.4	1.2	5.0	2.8	1.0	0.5	1.4	3.5
5.....	0.8	1.2	10.2	6.0	3.4	2.0	4.4	2.6	1.1	0.5	1.7	3.5
6.....	0.9	1.4	9.7	6.5	3.1	2.2	4.0	2.4	0.9	0.4	1.9	4.5
7.....	0.9	2.2	8.5	6.7	3.0	2.4	4.2	2.6	0.7	0.4	2.0	6.0
8.....	1.0	2.5	9.2	5.9	2.9	4.5	3.0	1.3	0.6	0.3	2.2	6.6
9.....	1.1	2.9	11.0	5.8	2.7	4.7	2.9	1.1	0.5	0.5	2.6	6.8
10.....	1.1	4.9	12.5	4.7	2.7	4.7	2.3	1.0	0.4	0.7	2.0	5.7
11.....	1.5	7.3	13.5	4.7	2.3	3.6	2.3	0.9	0.3	0.8	1.8	4.6
12.....	3.6	7.5	12.0	6.5	2.4	3.5	2.3	0.8	0.3	0.9	1.5	3.8
13.....	5.8	9.0	11.0	6.7	2.5	3.2	2.0	0.7	0.2	1.5	1.4	3.3
14.....	7.1	14.0	9.0	6.0	2.4	3.0	1.8	0.7	0.2	1.5	1.2	3.0
15.....	6.9	18.0	7.5	5.5	2.3	3.8	1.9	0.6	0.3	1.0	0.9	2.6
16.....	6.5	18.2	6.7	5.0	2.2	3.5	1.8	0.7	0.5	0.7	0.9	2.4
17.....	5.6	16.2	6.1	7.0	2.1	3.8	1.7	0.9	2.0	0.6	0.8	2.2
18.....	4.5	12.0	5.9	11.5	2.0	3.9	.....	0.9	2.4	0.5	0.8	2.0
19.....	4.3	10.0	5.7	11.2	1.9	4.5	.....	1.0	2.3	0.4	0.7	1.9
20.....	6.5	6.9	6.1	9.0	1.8	6.9	.....	1.1	2.8	0.3	0.7	1.8
21.....	8.0	5.7	7.9	9.0	1.8	6.9	.....	0.8	2.6	0.3	0.7	1.7
22.....	7.9	5.2	10.1	11.0	1.7	6.5	.....	0.6	1.9	0.3	0.8	1.6
23.....	7.0	6.5	12.5	10.3	1.6	5.2	.....	0.6	1.4	0.4	1.0	2.5
24.....	6.0	7.0	13.8	9.6	1.5	4.5	0.9	0.5	1.0	0.5	1.1	2.8
25.....	5.0	6.7	12.0	8.7	1.5	4.6	1.2	0.5	1.0	0.6	1.6	3.7
26.....	4.5	6.7	11.3	8.0	1.6	5.7	1.4	0.8	1.3	2.0	3.5	3.9
27.....	3.9	7.9	7.9	6.5	1.6	5.9	1.6	1.2	1.3	4.0	8.7	3.5
28.....	3.2	7.2	7.0	6.0	1.6	6.4	2.0	1.5	1.2	5.0	12.0	3.1
29.....	2.9	.....	8.5	5.5	2.1	6.5	4.8	1.1	1.0	3.5	12.1	2.8
30.....	2.8	.....	8.0	5.4	2.0	6.7	5.9	1.0	1.0	2.5	11.6	2.6
31.....	2.2	.....	7.0	.....	1.8	.....	5.7	0.9	.....	2.0	.....	2.5
<b>Means.</b>	<b>3.8</b>	<b>6.9</b>	<b>9.0</b>	<b>7.0</b>	<b>2.4</b>	<b>4.2</b>	<b>3.3</b>	<b>1.4</b>	<b>1.1</b>	<b>1.1</b>	<b>2.7</b>	<b>3.6</b>
<b>1901</b>												
1.....	3.4	4.6	2.0	11.0	9.5	10.0	4.4	1.5	7.8	2.6	1.1	1.0
2.....	3.8	5.0	2.0	10.9	7.9	9.0	.....	1.5	7.3	2.9	1.1	0.9
3.....	4.1	5.4	2.0	14.5	6.9	8.4	.....	1.4	6.9	2.8	1.1	0.9
4.....	3.9	6.8	1.9	18.0	6.2	7.1	.....	1.4	7.1	2.7	1.1	1.0
5.....	3.6	8.2	2.1	18.9	5.6	6.1	.....	1.3	7.7	2.6	1.1	1.1
6.....	3.0	8.1	2.5	17.5	5.1	5.5	.....	1.2	6.5	2.4	1.1	1.2
7.....	2.9	7.8	2.6	15.7	4.7	5.1	.....	1.2	5.4	2.1	1.1	1.4
8.....	2.6	7.3	2.6	13.7	4.5	5.1	.....	3.0	4.8	2.1	1.1	1.5
9.....	2.4	6.8	2.7	11.0	4.2	4.9	.....	8.5	4.2	2.0	1.1	1.6
10.....	2.3	6.0	5.8	7.4	4.0	4.7	.....	8.7	3.8	1.9	1.0	1.6
11.....	4.1	5.7	8.5	7.3	3.9	5.9	4.8	6.1	3.5	1.9	1.0	1.7
12.....	10.5	4.2	9.8	6.8	3.8	6.1	4.3	4.8	3.2	1.8	1.0	2.0
13.....	18.1	5.0	9.0	6.2	3.7	5.1	3.5	3.7	3.1	1.8	1.0	2.5
14.....	20.5	5.5	7.2	6.5	3.7	4.5	3.0	3.8	3.1	2.1	1.1	2.7
15.....	20.5	5.2	6.5	7.5	3.7	4.4	2.4	7.2	3.8	2.3	1.1	11.8
16.....	17.0	4.7	5.2	8.2	3.7	4.8	2.2	17.5	4.2	2.4	1.0	18.3
17.....	13.5	4.2	4.5	8.2	3.6	7.2	2.1	22.4	5.0	2.3	1.0	21.0
18.....	8.0	3.9	3.9	8.0	3.7	7.6	2.0	24.3	6.0	2.2	1.0	21.2
19.....	6.8	3.6	3.5	8.6	3.5	7.4	2.2	24.0	7.8	2.1	1.0	19.0
20.....	5.8	3.4	3.2	15.0	5.4	7.0	2.0	21.9	7.6	1.8	1.0	14.5
21.....	5.0	3.1	3.1	19.0	8.0	6.6	2.4	18.8	6.9	1.6	0.9	9.8
22.....	4.4	2.9	3.0	20.0	13.1	6.1	2.3	16.3	5.9	1.4	0.9	5.0
23.....	4.0	2.8	3.3	19.2	17.9	6.5	2.0	14.8	5.0	1.4	0.8	4.5
24.....	3.9	2.6	3.6	17.0	20.8	8.1	2.0	14.9	4.2	1.4	0.9	4.8
25.....	4.5	2.5	3.6	17.0	22.2	6.5	1.9	13.3	3.6	1.4	1.0	4.9
26.....	4.5	2.4	4.9	15.6	23.4	6.0	1.7	12.0	3.2	1.3	1.1	6.1
27.....	4.6	2.2	10.0	12.2	22.3	8.0	1.5	9.5	2.9	1.3	1.2	7.4
28.....	4.8	2.1	15.5	12.0	15.7	7.0	1.4	8.3	2.7	1.3	1.1	10.5
29.....	3.0	.....	17.0	11.8	11.0	5.8	1.4	8.2	2.6	1.2	1.1	16.8
30.....	3.0	.....	15.9	10.9	9.7	4.9	1.4	8.0	2.6	1.2	1.0	21.6
31.....	4.2	.....	13.5	.....	9.5	.....	1.4	7.8	.....	1.1	.....	24.4
<b>Means.</b>	<b>6.5</b>	<b>4.7</b>	<b>5.8</b>	<b>12.5</b>	<b>8.7</b>	<b>6.4</b>	<b>2.4</b>	<b>9.6</b>	<b>4.9</b>	<b>1.9</b>	<b>1.0</b>	<b>7.8</b>

\* 24.5 at noon.

## OHIO RIVER SYSTEM—TENNESSEE RIVER, BRIDGEPORT, ALA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	26.4	16.1	16.0	22.8	3.7	2.3	5.2	0.9	0.4	2.0	0.2	3.8
2.....	27.5	17.5	21.0	22.5	5.3	2.1	7.9	0.8	0.3	2.0	0.3	3.8
3.....	27.7	18.1	23.6	19.3	7.8	2.0	7.4	0.8	0.2	2.1	0.3	4.5
4.....	25.9	18.0	25.3	14.6	7.8	1.9	6.0	0.9	0.2	2.0	0.3	5.8
5.....	20.8	16.5	26.5	9.0	6.1	1.8	5.0	0.9	0.2	1.5	0.4	6.0
6.....	12.9	13.6	25.5	8.6	4.8	1.7	4.1	1.1	0.3	1.3	0.4	6.1
7.....	8.6	10.9	23.4	8.0	4.1	1.6	3.2	1.2	0.3	1.1	0.3	5.8
8.....	7.2	8.6	21.6	7.6	4.0	1.6	2.5	0.9	0.4	1.0	0.3	5.4
9.....	6.6	7.5	17.8	8.1	4.0	1.5	2.0	0.8	0.4	0.8	0.6	4.6
10.....	6.1	6.6	14.8	7.9	3.6	1.7	1.9	0.8	0.3	0.7	0.9	4.0
11.....	5.7	6.1	13.5	7.4	3.4	1.6	1.7	0.8	0.3	0.7	0.7	3.3
12.....	5.3	5.7	10.8	7.0	3.2	1.6	1.6	1.1	0.3	1.2	0.7	2.8
13.....	4.9	5.1	9.1	6.4	3.0	1.7	1.7	1.0	0.5	1.5	0.6	2.5
14.....	4.6	4.6	8.9	6.0	2.9	1.7	2.0	0.9	0.7	1.2	0.5	2.2
15.....	4.3	4.4	8.8	5.7	2.7	1.6	3.2	0.8	0.7	1.4	0.5	2.1
16.....	4.0	4.3	8.5	5.5	2.7	1.5	2.8	0.6	0.7	1.8	0.4	2.2
17.....	3.7	4.2	9.3	5.3	2.8	1.4	2.3	0.5	0.6	1.8	0.4	3.0
18.....	3.5	4.1	10.6	5.1	2.7	1.4	1.9	0.4	0.5	1.6	0.4	3.9
19.....	3.6	3.9	12.8	5.0	2.7	1.6	1.5	0.4	0.4	1.4	0.3	6.2
20.....	3.7	3.8	11.8	4.9	2.7	2.4	1.3	0.4	0.3	1.2	0.3	5.7
21.....	3.8	3.7	10.2	4.8	2.6	2.8	1.2	0.4	0.3	1.0	0.7	5.6
22.....	4.5	3.8	9.0	4.6	2.6	2.7	1.0	0.5	0.3	0.8	0.8	6.6
23.....	4.9	4.5	8.2	4.5	2.5	2.5	1.2	0.4	0.9	0.7	0.8	7.6
24.....	5.1	4.8	7.3	4.3	2.8	2.2	1.2	0.4	1.2	0.6	0.7	7.4
25.....	5.1	6.4	6.7	4.2	3.0	2.1	1.0	0.3	1.2	0.5	0.9	6.0
26.....	4.8	6.7	6.1	4.0	2.8	2.0	0.8	0.3	1.3	0.4	2.0	5.2
27.....	4.6	6.8	5.8	3.8	2.7	2.0	0.7	0.3	1.8	0.4	3.1	4.5
28.....	6.0	9.0	5.6	3.6	2.6	2.1	0.6	0.3	1.9	0.3	4.8	3.8
29.....	8.8		7.9	3.4	2.4	2.3	0.6	0.3	1.9	0.3	4.2	3.3
30.....	13.5		17.5	3.4	2.3	2.5	0.6	0.6	1.8	0.2	3.9	2.9
31.....	15.0		21.4		2.5		0.8	0.5		0.2		2.9
<b>Means.</b>	<b>9.3</b>	<b>8.0</b>	<b>13.7</b>	<b>7.6</b>	<b>3.5</b>	<b>1.9</b>	<b>2.4</b>	<b>0.7</b>	<b>0.7</b>	<b>1.1</b>	<b>1.0</b>	<b>4.5</b>
<b>1903</b>												
1.....	3.1	3.3	16.4	13.9	7.3	4.6	2.8	1.2	0.7	0.1	0.0	0.4
2.....	3.2	3.2	22.0	13.8	6.7	6.0	2.5	1.4	0.7	0.1	0.1	0.4
3.....	3.4	3.5	23.4	12.8	6.2	6.4	2.3	1.5	0.6	0.1	0.3	0.3
4.....	4.2	5.6	21.3	11.3	5.8	9.4	2.2	1.8	0.6	0.0	0.6	0.3
5.....	5.0	11.2	17.6	10.3	5.3	9.0	2.1	2.1	0.6	0.0	0.6	0.3
6.....	5.2	15.1	13.0	10.0	5.0	8.5	2.0	2.5	0.5	0.0	0.8	0.2
7.....	5.8	15.2	10.8	9.8	4.8	8.3	2.3	2.7	0.5	0.0	0.9	0.2
8.....	6.1	15.4	11.6	10.8	4.5	8.7	2.3	3.0	0.4	0.0	0.7	0.1
9.....	5.5	15.2	15.8	16.3	4.3	9.0	2.2	2.5	0.4	0.2	0.5	0.1
10.....	4.6	13.9	18.2	20.6	4.1	8.0	2.2	2.0	0.4	0.4	0.4	0.1
11.....	4.1	12.8	19.1	22.6	3.9	7.2	2.3	1.6	0.3	0.5	0.4	0.1
12.....	4.6	13.6	18.0	22.7	3.7	6.4	2.2	1.4	0.3	0.5	0.4	0.1
13.....	5.2	13.9	16.3	20.0	3.5	6.0	2.3	1.4	0.3	0.5	0.4	0.2
14.....	5.8	12.8	14.2	16.2	3.3	5.4	3.3	1.7	0.3	0.4	0.5	0.3
15.....	5.3	11.7	12.6	15.6	3.3	5.1	4.0	1.7	0.3	0.4	0.5	0.3
16.....	4.7	10.9	11.7	16.4	3.2	4.7	3.7	2.2	0.4	0.3	0.5	0.2
17.....	4.4	13.7	10.8	16.8	3.0	3.9	3.4	2.4	0.4	0.2	0.6	0.2
18.....	4.0	18.2	9.3	15.0	2.8	3.3	3.3	2.5	0.3	0.2	1.0	0.2
19.....	3.6	20.9	8.0	13.6	2.5	3.0	3.1	2.1	0.4	0.2	2.4	0.2
20.....	3.4	21.8	7.4	12.4	2.4	2.6	2.8	2.0	0.5	0.1	4.0	0.4
21.....	3.1	21.0	7.0	11.1	2.4	2.7	2.4	1.9	0.5	0.1	3.5	1.2
22.....	2.9	16.8	7.3	10.6	2.4	2.7	2.2	1.7	0.4	0.1	2.7	2.5
23.....	2.7	11.5	7.4	10.7	2.3	2.7	2.1	1.6	0.3	0.0	2.0	3.2
24.....	2.5	7.4	10.2	10.1	2.3	2.6	1.9	1.4	0.3	0.0	1.5	2.7
25.....	2.5	6.3	16.4	9.1	2.3	2.6	1.6	1.2	0.3	0.0	1.2	2.3
26.....	2.6	5.8	19.6	8.2	2.2	2.6	1.5	1.1	0.2	0.0	0.9	2.1
27.....	2.6	5.4	20.7	7.8	2.2	2.5	1.4	0.9	0.2	0.0	0.8	2.0
28.....	2.9	9.5	19.0	7.2	2.1	2.7	1.2	0.8	0.2	-0.1	0.8	2.0
29.....	3.0		14.0	7.0	2.0	3.0	1.1	0.8	0.1	-0.1	0.7	2.4
30.....	3.1		11.1	7.3	2.2	3.1	1.1	0.7	0.1	-0.1	0.5	2.3
31.....	3.3		12.5		2.6		1.0	0.7		0.0		2.4
<b>Means.</b>	<b>3.9</b>	<b>12.0</b>	<b>14.3</b>	<b>13.0</b>	<b>3.6</b>	<b>5.1</b>	<b>2.3</b>	<b>1.7</b>	<b>0.4</b>	<b>0.1</b>	<b>1.0</b>	<b>1.0</b>



	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	2.0	2.3	6.7	7.5	3.8	2.7	2.1	1.3	1.1	0.0	-0.4	0.4
2.....	1.7	2.0	5.9	6.6	5.1	3.3	2.0	1.0	1.0	0.0	-0.4	0.5
3.....	1.4	1.8	5.6	6.0	5.3	3.0	1.9	1.2	0.8	0.1	-0.3	0.5
4.....	1.2	1.7	5.3	5.3	4.6	2.8	2.7	1.2	0.7	0.0	-0.2	1.0
5.....	1.1	1.5	4.8	4.7	4.0	3.1	2.4	1.1	0.6	0.0	-0.1	1.5
6.....	0.9	1.4	4.5	4.2	3.8	3.4	2.2	1.3	0.6	0.0	0.0	1.7
7.....	0.9	1.5	4.4	4.0	3.5	3.4	1.8	1.9	0.6	-0.1	0.0	2.6
8.....	0.8	1.7	5.6	3.9	3.6	2.8	1.6	2.2	1.0	-0.1	0.0	3.5
9.....	0.8	3.1	8.4	4.4	3.8	2.4	1.4	2.0	1.1	-0.1	0.0	3.9
10.....	0.7	4.1	9.6	4.6	4.2	2.1	1.3	1.8	0.9	-0.2	0.1	3.8
11.....	0.7	4.3	9.2	4.5	5.0	2.0	1.5	1.9	0.7	-0.2	0.2	3.0
12.....	0.8	3.8	9.0	4.3	5.2	1.8	1.6	1.8	0.5	-0.2	0.3	2.3
13.....	0.8	3.6	8.5	4.0	5.1	1.7	1.7	2.0	0.5	-0.2	0.2	1.8
14.....	0.9	3.2	7.2	3.7	4.5	1.6	1.9	2.5	0.4	-0.2	0.2	1.5
15.....	1.1	2.8	7.7	3.4	4.0	1.4	2.1	2.1	0.4	-0.2	0.1	1.3
16.....	1.1	2.0	8.4	3.2	3.7	1.3	2.0	1.9	0.3	-0.3	0.1	1.2
17.....	1.5	2.2	7.1	3.0	3.5	1.3	1.7	2.0	0.2	-0.3	0.2	1.1
18.....	1.7	2.1	6.1	2.9	3.2	1.2	1.3	2.4	0.2	-0.3	0.2	1.0
19.....	2.1	2.0	5.4	2.8	3.0	1.0	1.2	2.1	0.2	-0.3	0.2	0.9
20.....	2.6	1.9	4.8	2.9	2.8	0.9	1.1	1.7	0.2	-0.3	0.3	0.8
21.....	2.4	2.2	4.3	2.8	2.6	0.8	0.9	1.5	0.1	-0.3	0.4	0.7
22.....	2.4	2.9	4.8	2.7	2.4	0.8	0.8	1.3	0.1	-0.3	0.3	0.6
23.....	4.6	4.1	8.5	2.7	2.1	0.9	0.7	1.1	0.1	-0.3	0.3	0.6
24.....	7.9	5.2	13.9	2.6	2.0	1.4	2.0	1.1	0.1	-0.3	0.2	0.5
25.....	8.4	6.3	16.6	2.5	1.9	1.3	2.3	1.3	0.1	-0.4	0.3	0.6
26.....	6.6	6.2	17.4	2.5	1.8	1.2	1.1	1.6	0.0	-0.4	0.3	0.8
27.....	5.7	5.8	16.0	2.4	1.6	1.0	1.0	1.5	0.0	-0.4	0.4	1.3
28.....	4.9	5.1	15.2	2.4	1.5	1.0	1.0	1.4	0.0	-0.4	0.4	4.2
29.....	3.9	6.4	13.1	2.8	1.4	1.2	1.1	1.3	0.0	-0.4	0.3	7.7
30.....	3.1		10.8	3.0	1.5	1.6	1.2	1.3	0.0	-0.4	0.3	8.7
31.....	2.7		8.2		1.9		1.3	1.2		-0.4		6.8
Means.	2.5	3.2	8.5	3.7	3.3	1.8	1.6	1.6	0.4	-0.2	0.1	2.1

[illegible]

## OHIO RIVER SYSTEM—TENNESSEE RIVER, UPPER MUSCLE SHOALS, ALA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	2.7	2.3	4.6	4.6	4.0	1.9	5.0	3.4	1.5	1.5	2.3	5.8
2.....	2.4	2.2	4.7	4.2	3.7	1.9	4.8	3.3	1.4	1.5	2.1	5.3
3.....	2.1	2.0	4.5	3.9	3.5	1.9	4.7	3.0	1.4	1.4	1.9	4.1
4.....	2.9	1.9	4.4	3.7	3.4	1.9	4.6	2.8	1.3	1.2	1.7	3.5
5.....	1.7	2.0	4.9	3.7	3.0	2.2	4.1	2.6	1.2	1.1	1.7	3.0
6.....	1.4	2.2	5.3	3.8	2.9	2.7	3.7	2.2	1.3	1.0	1.5	3.6
7.....	1.4	2.3	5.4	4.0	2.8	2.8	3.3	2.0	1.3	1.0	1.7	3.0
8.....	1.4	2.3	5.7	4.1	2.7	2.8	3.1	1.8	1.3	1.0	1.9	3.5
9.....	1.4	2.5	5.9	4.0	2.6	3.3	2.9	1.6	1.2	1.1	2.0	3.9
10.....	1.5	3.1	6.2	3.8	2.6	3.7	2.7	1.5	1.1	1.1	2.1	4.0
11.....	1.6	3.5	6.5	4.3	2.5	3.5	2.5	1.4	1.1	1.2	2.0	3.9
12.....	1.8	4.2	6.6	5.3	2.4	3.2	2.1	1.4	1.0	1.6	1.9	3.5
13.....	3.0	5.0	6.5	5.8	2.3	2.8	2.1	1.3	1.0	2.2	1.8	3.2
14.....	3.9	6.0	6.1	5.7	2.3	2.7	2.0	1.3	1.0	2.3	1.6	2.8
15.....	4.4	6.5	5.5	5.1	2.3	2.9	1.9	1.3	1.0	2.3	1.5	2.6
16.....	4.3	7.1	4.9	4.4	2.2	3.1	1.9	1.2	1.1	2.1	1.5	2.5
17.....	4.2	7.9	4.4	5.5	2.2	3.2	1.8	1.2	1.2	1.9	1.5	2.4
18.....	3.9	7.8	4.2	7.0	2.1	3.3	1.8	1.3	1.3	1.7	1.4	2.3
19.....	3.8	7.5	4.1	7.2	2.1	3.6	1.8	1.5	1.8	1.5	1.3	2.2
20.....	4.1	6.5	4.5	7.2	2.0	3.7	1.7	1.4	2.1	1.4	1.3	2.0
21.....	4.9	5.1	5.0	6.9	2.0	4.1	1.6	1.3	2.2	1.4	1.4	2.0
22.....	5.1	4.4	5.3	6.3	2.0	4.3	1.5	1.3	2.4	1.3	1.4	2.1
23.....	4.9	4.4	5.7	6.0	1.9	4.3	1.5	1.3	2.3	1.2	1.5	2.2
24.....	4.5	4.4	6.3	5.8	1.9	4.5	1.4	1.3	2.0	1.3	1.5	2.4
25.....	4.0	4.4	6.7	5.6	2.0	4.6	1.4	1.3	1.8	1.3	1.6	2.7
26.....	3.9	4.5	6.7	5.4	2.0	4.7	1.5	1.2	1.6	1.2	2.0	2.8
27.....	3.5	4.5	6.2	5.2	1.8	4.8	1.9	1.2	1.6	1.6	2.9	3.0
28.....	3.1	4.6	5.5	4.7	1.7	5.0	2.3	1.2	1.6	2.9	4.5	3.0
29.....	2.9	.....	5.1	4.3	1.7	5.4	2.4	1.5	1.7	3.3	5.7	2.8
30.....	2.7	.....	5.0	4.1	1.9	5.2	2.5	1.5	1.6	3.0	6.0	2.7
31.....	2.5	.....	4.8	.....	1.9	.....	3.1	1.5	.....	2.6	.....	2.6
<b>Means.</b>	<b>3.1</b>	<b>4.3</b>	<b>5.4</b>	<b>5.1</b>	<b>2.4</b>	<b>3.5</b>	<b>2.6</b>	<b>1.7</b>	<b>1.5</b>	<b>1.7</b>	<b>2.1</b>	<b>3.1</b>
<b>1901</b>												
1.....	2.7	3.4	2.1	7.1	5.8	5.7	3.3	1.5	4.4	2.4	1.4	1.6
2.....	2.9	3.5	2.1	6.8	5.3	5.4	3.0	1.5	4.3	2.3	1.6	1.6
3.....	3.0	3.6	2.2	6.7	4.7	5.1	2.9	1.5	4.3	2.3	1.6	1.5
4.....	3.1	4.3	2.2	7.0	4.2	4.8	2.8	1.4	4.2	2.3	1.6	1.5
5.....	3.1	5.0	2.2	7.5	3.9	4.3	2.8	1.5	4.2	2.3	1.6	1.5
6.....	3.0	5.4	2.2	7.7	3.6	3.9	2.8	1.5	4.2	2.3	1.6	1.5
7.....	2.7	5.5	2.4	7.8	3.4	3.6	2.8	1.5	3.9	2.2	1.6	1.6
8.....	2.6	5.1	2.4	7.7	3.3	3.4	2.6	1.4	3.5	2.3	1.6	1.7
9.....	2.5	4.8	2.5	7.5	3.1	3.3	2.5	1.4	3.2	2.2	1.6	1.7
10.....	2.5	4.8	3.9	6.7	3.0	3.3	2.5	3.6	2.9	2.1	1.6	1.8
11.....	2.8	4.5	5.3	5.5	2.9	3.2	2.6	4.4	2.8	2.0	1.6	1.9
12.....	5.0	4.2	6.0	4.8	2.8	3.4	2.8	4.0	2.6	1.9	1.6	2.0
13.....	6.7	3.9	6.1	4.2	2.8	3.7	2.9	3.4	2.5	1.9	1.6	2.1
14.....	7.5	3.7	5.7	4.1	2.8	3.6	2.7	2.9	2.5	1.9	1.6	2.4
15.....	8.0	3.7	5.1	4.1	2.8	3.2	2.4	2.7	2.6	1.9	1.5	4.0
16.....	8.1	3.6	4.4	4.2	2.7	3.0	2.2	3.9	2.8	2.0	1.5	5.7
17.....	8.1	3.5	3.9	4.5	2.7	3.0	2.0	6.6	3.1	2.1	1.5	6.9
18.....	7.8	3.3	3.5	4.5	2.6	3.4	2.0	7.6	3.9	2.1	1.5	7.2
19.....	6.7	3.1	3.1	4.8	2.6	3.9	1.9	8.2	4.2	2.0	1.5	8.0
20.....	5.1	3.0	3.0	6.0	2.5	4.0	1.9	8.5	4.5	2.0	1.5	8.1
21.....	4.1	2.8	3.1	7.3	3.0	4.0	1.9	8.7	4.5	1.9	1.5	7.6
22.....	3.7	2.7	3.1	7.7	4.2	3.8	1.9	8.9	4.2	1.8	1.5	5.7
23.....	3.3	2.6	3.0	8.0	5.8	3.7	1.9	8.7	3.8	1.7	1.5	5.0
24.....	3.3	2.6	2.8	8.1	6.8	3.6	1.9	8.4	3.4	1.7	1.5	4.1
25.....	3.4	2.4	2.9	8.1	7.5	4.0	1.9	8.0	3.1	1.6	1.5	3.8
26.....	3.6	2.3	3.2	8.1	.....	3.9	1.8	7.6	2.8	1.6	1.5	3.8
27.....	3.6	2.3	4.0	7.7	.....	3.6	1.7	7.0	2.6	1.6	1.5	4.1
28.....	3.5	2.2	5.2	6.9	.....	4.0	1.6	6.0	2.5	1.5	1.6	4.8
29.....	3.4	.....	6.5	6.6	.....	4.0	1.6	5.3	2.5	1.4	1.6	6.1
30.....	3.2	.....	7.0	6.2	.....	3.7	1.5	4.9	2.5	1.4	1.6	7.5
31.....	3.3	.....	7.3	.....	6.5	.....	1.5	4.6	.....	1.4	.....	8.0
<b>Means.</b>	<b>4.3</b>	<b>3.6</b>	<b>3.8</b>	<b>6.5</b>	<b>3.9</b>	<b>3.8</b>	<b>2.3</b>	<b>4.7</b>	<b>3.4</b>	<b>1.9</b>	<b>1.6</b>	<b>4.0</b>

## OHIO RIVER SYSTEM—TENNESSEE RIVER, UPPER MUSCLE SHOALS, ALA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	8.6	7.2	6.4	8.1	2.8	2.1	1.9	1.1	1.1	1.8	1.0	3.0
2.....	8.9	7.8	7.2	8.4	2.8	2.2	2.5	1.1	1.1	1.9	1.0	3.1
3.....	9.3	8.1	7.6	8.7	3.0	2.1	3.4	1.2	1.1	2.0	1.0	3.4
4.....	9.6	8.2	8.0	8.8	3.9	2.0	3.4	1.2	1.1	2.0	1.0	3.5
5.....	9.8	8.2	8.6	8.5	4.4	2.0	3.2	1.1	1.0	2.0	1.0	4.0
6.....	9.9	8.1	9.2	7.5	4.0	1.9	3.0	1.1	1.0	1.9	1.1	4.1
7.....	9.5	7.8	9.5	6.5	3.5	1.9	2.8	1.2	1.0	1.7	1.2	4.0
8.....	8.5	7.0	9.7	5.7	3.1	1.9	2.4	1.3	1.0	1.6	1.2	4.0
9.....	6.8	6.0	9.7	5.5	2.9	1.9	2.4	1.4	1.0	1.5	1.1	3.8
10.....	5.3	5.0	9.5	5.2	2.8	1.8	2.1	1.3	1.0	1.4	1.1	3.5
11.....	4.4	4.5	8.9	5.0	2.8	1.7	2.0	1.2	1.0	1.4	1.2	3.2
12.....	4.0	4.1	8.1	4.7	2.7	1.7	1.9	1.2	1.0	1.5	1.3	3.0
13.....	3.7	3.9	7.6	4.5	2.6	1.7	1.7	1.3	1.0	1.6	1.3	2.7
14.....	3.5	3.7	6.4	4.3	2.6	1.7	1.7	1.5	1.0	1.9	1.3	2.5
15.....	3.4	3.5	5.7	4.0	2.5	1.7	1.6	1.4	1.0	1.9	1.3	2.4
16.....	3.2	3.5	5.3	3.9	2.5	1.7	1.8	1.2	1.2	1.8	1.2	2.4
17.....	3.1	3.5	5.5	3.8	2.5	1.6	2.4	1.1	1.2	1.7	1.1	2.8
18.....	3.0	3.5	5.8	3.7	2.4	1.6	2.1	1.0	1.3	1.8	1.1	3.2
19.....	3.0	3.3	6.0	3.6	2.4	1.5	1.9	1.0	1.2	1.9	1.1	3.5
20.....	3.1	3.3	6.1	3.5	2.4	1.5	1.8	1.0	1.2	1.8	1.1	3.9
21.....	3.3	3.1	6.1	3.4	2.3	1.6	1.7	1.0	1.0	1.8	1.1	4.0
22.....	3.5	3.1	5.9	3.3	2.3	2.0	1.6	1.0	1.0	1.6	1.1	4.0
23.....	3.8	3.1	5.5	3.2	2.3	2.2	1.5	1.2	1.0	1.5	1.3	4.4
24.....	3.9	3.4	4.8	3.1	2.2	2.1	1.4	1.2	1.0	1.4	1.4	4.6
25.....	3.9	3.7	4.6	3.0	2.2	1.9	1.3	1.1	1.2	1.3	1.5	4.6
26.....	3.8	4.2	4.3	3.0	2.4	1.8	1.3	1.1	1.5	1.2	1.8	4.2
27.....	3.8	4.4	4.2	2.9	2.4	1.7	1.3	1.1	1.5	1.2	2.4	3.8
28.....	4.2	5.1	4.3	2.9	2.3	1.7	1.3	1.0	1.6	1.1	2.8	3.5
29.....	4.5	.....	5.1	2.9	2.2	1.7	1.3	1.0	1.8	1.1	3.3	3.1
30.....	5.2	.....	6.7	2.8	2.2	1.8	1.2	1.1	2.0	1.1	3.3	3.0
31.....	6.4	.....	7.7	.....	2.1	.....	1.2	1.1	.....	1.1	.....	2.9
<b>Means.</b>	<b>5.4</b>	<b>5.0</b>	<b>6.8</b>	<b>4.8</b>	<b>2.7</b>	<b>1.8</b>	<b>2.0</b>	<b>1.2</b>	<b>1.2</b>	<b>1.6</b>	<b>1.4</b>	<b>3.5</b>
<b>1903</b>												
1.....	2.8	2.9	6.7	6.6	4.0	2.8	2.4	1.5	1.2	1.0	0.9	1.1
2.....	2.8	2.8	7.9	6.4	4.0	3.6	2.4	1.5	1.2	0.9	0.9	1.1
3.....	2.9	3.0	8.3	6.8	3.9	4.0	2.3	1.7	1.3	0.9	0.9	1.1
4.....	3.0	3.5	8.7	6.4	3.9	4.5	2.1	1.8	1.3	0.9	0.9	1.0
5.....	3.4	4.7	8.9	6.2	3.7	5.0	2.0	1.8	1.3	0.9	1.2	1.0
6.....	3.5	6.2	8.9	5.7	3.6	5.1	1.9	1.9	1.2	0.9	1.3	1.0
7.....	3.7	7.0	8.7	5.4	3.4	5.0	1.9	2.1	1.2	0.9	1.3	0.9
8.....	3.7	7.6	8.0	5.3	3.3	4.8	1.9	2.4	1.2	0.9	1.3	0.9
9.....	3.9	7.9	7.7	5.8	3.3	4.8	2.0	2.5	1.1	1.0	1.3	0.9
10.....	3.8	7.9	7.8	6.9	3.2	4.8	2.1	2.5	1.1	1.1	1.2	0.9
11.....	3.6	7.8	8.0	7.6	3.1	4.6	2.1	2.1	1.1	1.1	1.2	0.9
12.....	3.6	7.8	8.2	8.0	3.0	4.6	2.1	1.9	1.1	1.1	1.1	0.8
13.....	3.7	7.8	8.2	8.4	2.9	4.5	2.1	1.8	1.1	1.1	1.1	0.9
14.....	3.8	7.6	8.1	8.6	2.9	4.0	2.2	1.7	1.1	1.1	1.1	1.0
15.....	3.9	7.3	7.8	8.7	3.1	3.8	2.3	1.6	1.1	1.1	1.1	1.0
16.....	3.8	7.1	6.8	8.4	3.4	3.5	2.6	1.7	1.1	1.1	1.1	1.0
17.....	3.6	7.4	6.2	8.1	3.3	3.2	2.8	1.9	1.0	1.1	1.1	1.0
18.....	3.5	7.9	5.8	7.9	3.1	3.0	2.8	2.0	1.0	1.0	1.1	1.0
19.....	3.3	8.1	5.5	7.7	3.0	2.8	2.8	2.1	1.0	1.0	1.3	1.0
20.....	3.1	8.4	5.0	7.5	2.8	2.6	2.7	2.1	1.0	1.0	1.6	1.1
21.....	2.9	8.6	4.7	7.0	2.7	2.4	2.5	1.9	1.0	1.0	2.4	1.3
22.....	2.8	8.8	4.5	6.4	2.5	2.3	2.3	1.9	1.0	1.0	2.8	1.5
23.....	2.7	8.8	4.5	5.9	2.4	2.3	2.1	1.8	1.0	0.9	2.5	1.9
24.....	2.6	8.0	4.5	5.6	2.3	2.3	2.1	1.7	1.1	0.9	2.4	2.3
25.....	2.5	6.8	5.1	5.0	2.2	2.3	2.1	1.6	1.1	0.9	2.1	2.4
26.....	2.4	5.5	6.5	5.0	2.1	2.3	2.0	1.5	1.1	0.9	1.8	2.1
27.....	2.5	4.7	7.3	4.8	2.0	2.2	1.7	1.5	1.1	0.9	1.6	2.0
28.....	2.5	4.9	7.8	4.6	1.9	2.2	1.6	1.4	1.1	0.9	1.4	2.0
29.....	2.7	.....	8.0	4.4	1.9	2.3	1.5	1.3	1.0	0.9	1.3	1.9
30.....	2.9	.....	7.9	4.3	1.8	2.3	1.5	1.3	1.0	0.9	1.2	2.0
31.....	2.9	.....	7.3	.....	2.2	.....	1.5	1.3	.....	0.9	.....	2.1
<b>Means.</b>	<b>3.2</b>	<b>6.7</b>	<b>7.1</b>	<b>6.5</b>	<b>2.9</b>	<b>3.5</b>	<b>2.1</b>	<b>1.8</b>	<b>1.1</b>	<b>1.0</b>	<b>1.4</b>	<b>1.3</b>

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—TENNESSEE RIVER, UPPER MUSCLE SHOALS, ALA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	2.0	2.5	3.3	5.7	2.4	2.4	1.6	1.5	1.5	0.8	0.6	1.1
2.....	2.0	2.3	3.9	4.8	2.5	2.7	1.7	1.6	1.4	0.8	0.6	1.1
3.....	1.9	2.1	3.9	4.7	2.9	3.0	1.9	1.6	1.3	0.8	0.7	1.1
4.....	1.8	2.0	3.7	4.3	3.4	2.9	2.0	1.5	1.2	0.8	0.8	1.2
5.....	1.6	1.9	3.6	3.9	3.3	2.5	2.1	1.6	1.2	0.8	0.8	1.3
6.....	1.5	1.8	3.6	3.7	3.3	2.7	2.2	1.7	1.2	0.8	0.8	1.6
7.....	1.3	1.8	3.3	3.5	3.0	2.7	2.3	1.7	1.2	0.8	0.8	2.0
8.....	1.2	1.7	3.5	3.3	2.9	2.6	2.4	1.8	1.2	0.8	0.8	2.4
9.....	1.2	1.7	3.8	3.7	2.7	2.5	2.0	2.0	1.3	0.8	0.8	2.6
10.....	1.2	2.0	4.3	3.8	2.7	2.3	1.9	2.1	1.4	0.8	0.8	2.8
11.....	1.2	2.6	4.8	3.8	2.8	2.1	1.8	2.1	1.5	0.8	0.8	2.9
12.....	1.1	3.0	5.0	3.6	3.0	2.0	1.8	2.1	1.4	0.8	0.8	2.9
13.....	1.1	3.0	5.0	3.5	3.3	1.9	2.0	2.3	1.3	0.8	0.8	2.7
14.....	1.2	2.8	4.9	3.2	3.4	1.8	1.9	2.2	1.2	0.8	1.0	2.3
15.....	1.2	2.7	4.7	3.2	3.2	1.7	1.8	2.2	1.1	0.8	1.0	1.9
16.....	1.3	2.5	4.8	2.9	3.0	1.6	2.0	2.3	1.1	0.8	0.9	1.8
17.....	1.5	2.4	4.7	2.8	2.9	1.5	2.0	2.0	1.0	0.7	0.9	1.7
18.....	1.6	2.3	4.4	2.5	2.7	1.5	1.9	1.9	1.0	0.7	0.8	1.5
19.....	1.7	2.1	4.1	2.5	2.6	1.5	1.8	2.0	1.0	0.7	0.8	1.4
20.....	1.8	2.0	3.7	2.5	2.5	1.5	1.7	2.0	1.0	0.7	0.8	1.4
21.....	2.0	2.0	3.5	2.5	2.4	1.4	1.5	1.8	1.0	0.7	0.9	1.3
22.....	2.1	2.0	3.3	2.5	2.3	1.4	1.4	1.8	0.9	0.7	1.0	1.3
23.....	2.5	2.1	4.0	2.5	2.2	1.4	1.4	1.7	0.9	0.7	1.0	1.3
24.....	3.4	2.6	5.5	2.4	1.9	1.4	1.4	1.6	0.9	0.7	1.0	1.3
25.....	4.3	3.1	6.4	2.4	1.9	1.5	1.4	1.5	0.9	0.7	1.0	1.3
26.....	4.9	3.6	7.5	2.4	1.7	1.6	1.4	1.4	0.8	0.7	1.0	1.3
27.....	4.3	3.7	7.8	2.4	1.7	1.6	1.5	1.5	0.8	0.7	0.9	1.5
28.....	3.8	3.6	7.9	2.3	1.7	1.6	1.5	1.6	0.8	0.7	0.9	2.5
29.....	3.5	3.4	7.8	2.3	1.7	1.5	1.5	1.6	0.8	0.6	1.0	3.3
30.....	3.0	.....	7.5	2.3	1.6	1.5	1.6	1.5	0.8	0.6	1.0	4.4
31.....	2.7	.....	6.5	.....	1.6	.....	1.5	1.5	.....	0.6	.....	4.9
Means.	2.1	2.5	4.9	3.2	2.6	1.9	1.8	1.8	1.1	0.7	0.9	2.0

## OHIO RIVER SYSTEM—TENNESSEE RIVER, LOWER MUSCLE SHOALS, ALA. (LOCK No. 9).

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	2.3	2.0	4.2	3.9	3.3	1.6	4.4	3.0	1.1	1.0	1.8	5.0
2.....	2.1	1.8	4.2	3.5	3.2	1.7	4.3	2.8	1.1	0.9	1.5	4.3
3.....	2.0	1.7	4.1	3.2	3.0	1.8	4.1	2.5	1.1	0.8	1.3	3.5
4.....	1.7	1.7	4.1	3.0	2.8	2.0	4.1	2.3	1.0	0.8	1.2	3.0
5.....	1.3	1.7	4.1	3.0	2.7	2.1	3.7	2.0	0.9	0.7	1.1	2.5
6.....	1.2	1.8	4.4	3.1	2.4	2.6	3.1	1.8	0.9	0.6	1.1	2.4
7.....	1.1	2.0	4.7	3.2	2.3	2.8	2.8	1.6	0.9	0.8	1.2	2.3
8.....	1.0	2.0	5.1	3.4	2.2	2.9	2.5	1.5	0.9	0.9	1.3	2.6
9.....	1.0	2.3	5.3	3.4	2.2	3.0	2.4	1.3	0.9	1.0	1.4	3.1
10.....	1.0	3.2	5.4	3.2	2.1	3.0	2.2	1.2	0.8	0.8	1.6	3.3
11.....	1.5	3.3	5.7	4.3	2.1	3.2	2.1	1.1	0.7	0.9	1.5	3.3
12.....	2.7	3.5	5.8	5.4	2.0	2.8	2.0	1.1	0.6	1.7	1.4	2.9
13.....	3.2	4.2	5.8	5.1	1.9	1.7	2.0	1.0	0.5	2.3	1.3	2.5
14.....	3.2	5.2	5.2	5.0	1.9	1.5	1.8	0.9	0.5	2.0	1.2	2.3
15.....	4.0	6.0	4.4	4.5	1.8	1.9	1.8	0.9	0.5	1.9	1.1	2.1
16.....	4.0	6.7	4.1	4.0	1.8	2.8	1.7	0.9	0.5	1.7	1.0	2.1
17.....	3.7	7.1	3.7	4.5	1.7	2.9	1.6	0.8	0.7	1.4	1.0	1.9
18.....	3.5	7.1	3.4	8.5	1.7	2.9	1.6	0.8	0.8	1.1	1.0	1.7
19.....	3.4	6.6	3.3	9.3	1.7	3.0	1.6	1.0	1.1	1.0	0.9	1.6
20.....	3.7	6.2	3.9	9.1	1.6	3.0	1.5	1.0	1.4	0.9	0.9	1.6
21.....	4.2	4.4	4.2	9.0	1.6	3.2	1.5	0.9	1.6	0.8	1.0	1.6
22.....	4.4	3.8	4.3	7.2	1.5	3.5	1.5	0.9	1.7	0.9	1.3	1.7
23.....	4.3	3.6	4.6	6.5	1.5	3.7	1.4	0.9	1.7	0.9	1.3	1.9
24.....	4.1	3.8	5.0	6.2	1.8	4.1	1.3	1.0	1.5	1.1	1.2	2.1
25.....	3.7	3.9	5.4	5.6	1.7	4.4	1.3	0.8	1.3	1.0	1.3	2.3
26.....	3.3	3.9	4.6	5.1	1.5	4.4	1.5	0.8	1.1	1.0	2.0	2.3
27.....	2.7	3.8	4.6	4.6	1.5	5.0	2.0	0.8	0.9	1.2	2.6	2.3
28.....	2.7	4.0	4.2	4.1	1.5	6.0	2.0	0.8	0.9	2.1	3.5	2.4
29.....	2.5	.....	4.2	3.8	1.5	5.8	1.9	0.9	1.0	2.6	4.7	2.3
30.....	2.3	.....	4.2	3.5	1.5	5.0	1.9	1.2	1.0	2.4	5.0	2.2
31.....	2.1	.....	4.0	.....	1.6	.....	2.6	1.3	.....	2.1	.....	2.1
Means.	2.7	3.8	4.5	4.9	2.0	3.1	2.3	1.3	1.0	1.3	1.6	2.5

## OHIO RIVER SYSTEM—TENNESSEE RIVER, LOWER MUSCLE SHOALS, ALA. (LOCK NO. 9)—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	2.2	3.1	1.8	6.2	5.0	4.8	2.9	1.1	3.8	2.1	1.1	1.0
2.....	2.3	3.1	1.8	5.6	4.4	4.4	2.5	1.1	3.6	2.0	1.0	1.0
3.....	2.4	3.3	1.8	5.8	4.1	4.2	2.4	1.1	3.5	1.9	1.0	1.0
4.....	2.5	4.5	1.9	6.0	3.7	4.1	2.3	1.1	3.5	1.9	1.0	1.0
5.....	2.5	5.0	1.9	6.5	3.3	3.8	2.2	1.1	3.5	1.9	1.0	1.0
6.....	2.4	5.0	1.8	7.2	3.1	3.3	2.3	1.1	3.5	1.9	1.0	1.0
7.....	2.3	4.8	1.9	7.4	2.9	3.1	2.3	1.4	3.4	1.8	1.0	1.0
8.....	2.2	4.5	2.1	7.4	2.8	2.9	2.1	1.2	3.0	1.8	1.0	1.0
9.....	2.1	4.5	2.2	6.9	2.7	2.8	2.0	1.1	2.7	1.8	1.0	1.1
10.....	2.0	4.1	4.0	6.0	2.5	3.0	2.0	2.3	2.4	1.7	1.0	1.2
11.....	2.5	4.0	5.4	5.0	2.4	2.9	2.0	3.5	2.3	1.6	1.0	1.3
12.....	5.0	3.7	5.5	4.2	2.3	2.8	2.1	3.5	2.1	1.5	1.0	1.4
13.....	6.6	3.4	5.4	3.7	2.3	3.2	2.3	3.0	2.1	1.5	1.0	1.4
14.....	7.3	3.3	5.0	3.4	2.3	3.0	2.1	2.5	2.0	1.6	1.0	1.8
15.....	7.6	3.1	4.4	3.3	2.2	2.8	2.0	2.4	2.2	1.5	1.0	3.8
16.....	7.9	3.1	4.0	3.5	2.2	2.5	1.8	3.3	3.2	1.5	1.0	5.8
17.....	8.0	3.0	3.4	3.8	2.2	2.5	1.6	5.7	3.3	1.6	1.0	7.1
18.....	7.5	3.0	3.1	4.0	2.2	2.7	1.5	7.4	3.5	1.6	1.0	7.7
19.....	6.3	2.7	2.7	4.4	2.2	3.2	1.5	7.9	3.9	1.6	1.0	7.7
20.....	4.5	2.6	2.6	5.8	2.1	3.3	1.5	8.5	4.0	1.5	1.0	7.7
21.....	3.9	2.4	2.6	7.1	2.3	3.3	1.5	8.7	4.0	1.5	1.0	7.5
22.....	3.3	2.3	2.6	7.5	3.1	3.2	1.5	9.2	3.6	1.4	0.9	5.9
23.....	3.0	2.2	2.5	7.8	4.4	3.0	1.5	9.0	3.3	1.3	0.9	4.2
24.....	2.9	2.1	2.5	7.8	5.7	3.0	1.5	8.4	3.0	1.3	0.9	3.4
25.....	3.4	2.1	2.5	7.8	6.1	3.3	1.5	7.7	2.6	1.2	0.9	3.2
26.....	3.4	2.0	2.5	7.5	7.0	3.3	1.4	7.3	2.3	1.2	0.9	3.1
27.....	3.3	1.9	3.2	7.1	7.4	3.0	1.3	6.3	2.1	1.2	0.9	3.3
28.....	3.3	1.9	4.1	6.2	7.6	3.2	1.3	5.4	2.0	1.1	1.0	4.0
29.....	3.1		5.2	5.8	7.8	3.4	1.2	4.4	2.2	1.1	1.0	5.2
30.....	3.0		6.2	5.3	7.1	3.2	1.1	4.1	2.3	1.1	1.0	7.0
31.....	3.0		6.2		5.8		1.1	4.1		1.1		7.8
<b>Means.</b>	<b>3.9</b>	<b>3.2</b>	<b>3.3</b>	<b>5.9</b>	<b>3.9</b>	<b>3.2</b>	<b>1.8</b>	<b>4.4</b>	<b>3.0</b>	<b>1.5</b>	<b>1.0</b>	<b>3.6</b>
<b>1902</b>												
1.....	8.2	7.4	6.0	8.5	2.2	1.7	1.4	0.9	0.5	1.4	0.4	2.8
2.....	8.5	7.7	7.0	8.2	2.2	1.7	1.6	1.0	0.6	1.4	0.4	2.9
3.....	9.1	7.6	7.6	8.3	2.2	1.7	2.9	1.0	0.7	1.4	0.4	3.0
4.....	9.5	7.8	8.0	8.6	3.3	1.5	3.3	0.9	0.7	1.4	0.4	3.1
5.....	10.2	7.8	8.5	8.5	3.6	1.5	3.1	0.7	0.7	1.4	0.4	3.3
6.....	10.4	7.7	9.4	7.0	3.3	1.4	2.8	0.7	0.5	1.3	0.5	3.6
7.....	10.1	7.0	9.8	5.7	3.1	1.4	2.5	0.8	0.5	1.2	0.5	3.6
8.....	8.7	6.0	10.4	5.0	2.5	1.3	2.2	0.8	0.5	1.1	0.6	3.4
9.....	5.9	5.2	10.4	4.8	2.4	1.3	1.9	0.9	0.5	1.0	0.5	3.2
10.....	4.4	4.2	10.0	4.6	2.3	1.3	1.7	0.9	0.5	0.9	0.5	3.0
11.....	3.6	3.7	9.0	4.3	2.2	1.2	1.5	0.7	0.5	1.0	0.5	2.6
12.....	3.2	3.5	8.0	4.0	2.1	1.2	1.4	0.7	0.5	1.0	0.6	2.4
13.....	3.0	3.2	6.4	3.9	2.0	1.2	1.3	0.7	0.4	1.1	0.7	2.1
14.....	2.8	3.0	5.4	3.6	2.0	1.2	1.2	0.9	0.4	1.3	0.7	2.0
15.....	2.7	3.0	4.9	3.4	1.9	1.2	1.2	1.0	0.4	1.3	0.7	2.0
16.....	2.5	3.0	4.5	3.3	1.9	1.2	1.3	0.9	0.5	1.3	0.7	3.0
17.....	2.4	3.0	4.7	3.1	1.8	1.1	1.7	0.7	0.6	1.1	0.6	3.4
18.....	2.3	2.9	4.8	3.1	1.8	1.1	1.7	0.7	0.7	1.2	0.6	3.1
19.....	2.3	2.7	5.1	3.0	1.8	1.1	1.5	0.6	0.7	1.3	0.6	3.0
20.....	2.4	2.7	5.3	2.9	1.8	1.1	1.2	0.5	0.6	1.3	0.5	3.3
21.....	2.6	2.6	5.2	2.9	1.8	1.1	1.2	0.5	0.6	1.1	0.5	3.5
22.....	3.0	2.6	5.0	2.8	1.8	1.3	1.1	0.5	0.5	1.1	0.5	3.8
23.....	3.2	2.7	4.5	2.7	1.7	1.7	1.1	0.5	0.5	1.0	0.6	3.9
24.....	3.2	2.9	4.2	2.6	1.7	1.7	1.0	0.5	0.5	0.9	0.7	3.9
25.....	3.1	3.1	3.9	2.5	1.7	1.5	1.0	0.5	0.5	0.7	1.1	3.9
26.....	3.1	3.8	3.6	2.5	1.7	1.5	1.0	0.5	0.8	0.7	1.7	3.4
27.....	3.5	4.0	3.5	2.4	1.7	1.4	0.9	0.5	1.0	0.7	2.0	3.2
28.....	4.4	4.6	3.6	2.4	1.7	1.3	0.9	0.5	1.1	0.6	2.2	2.9
29.....	4.4		10.5	2.3	1.6	1.4	0.7	0.5	1.2	0.5	2.5	2.7
30.....	5.2		9.0	2.3	1.6	1.4	0.9	0.5	1.4	0.5	2.6	2.5
31.....	6.4		9.0		1.6		0.8	0.6		0.5		2.5
<b>Means.</b>	<b>5.0</b>	<b>4.5</b>	<b>6.7</b>	<b>4.3</b>	<b>2.1</b>	<b>1.4</b>	<b>1.5</b>	<b>0.7</b>	<b>0.6</b>	<b>1.1</b>	<b>0.8</b>	<b>3.1</b>

## OHIO RIVER SYSTEM—TENNESSEE RIVER, LOWER MUSCLE SHOALS, ALA. (LOCK NO. 9)—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	2.3	2.4	6.4	6.0	3.5	2.9	1.8	1.1	0.8	0.3	0.3	0.7
2.....	2.4	2.4	7.5	5.6	3.4	3.4	2.0	1.1	0.7	0.3	0.4	0.6
3.....	2.9	2.5	8.1	5.6	3.4	3.6	1.9	1.2	0.7	0.3	0.4	0.5
4.....	3.1	4.0	8.3	5.5	3.2	3.8	1.8	1.2	0.7	0.3	0.5	0.5
5.....	3.0	5.0	8.4	5.0	3.1	4.8	1.6	1.2	0.7	0.3	0.8	0.5
6.....	3.0	5.9	8.9	4.4	3.0	4.9	1.6	1.4	0.6	0.3	0.8	0.4
7.....	3.2	6.4	8.7	4.0	2.9	4.4	1.6	1.8	0.6	0.3	0.7	0.4
8.....	3.1	7.4	8.5	3.9	2.8	4.2	1.6	1.8	0.6	0.4	0.7	0.4
9.....	3.2	7.7	8.0	4.5	2.7	4.1	1.7	1.9	0.5	0.5	0.8	0.4
10.....	3.1	7.6	7.8	5.8	2.6	4.2	1.7	1.8	0.5	0.5	0.8	0.3
11.....	3.1	7.6	7.8	6.9	2.5	3.9	1.7	1.8	0.5	0.4	0.7	0.3
12.....	3.3	8.0	8.0	7.4	2.4	3.9	1.7	1.5	0.5	0.4	0.6	0.3
13.....	3.3	7.5	8.0	7.8	2.4	3.7	1.9	1.5	0.5	0.4	0.6	0.3
14.....	3.3	7.2	7.8	8.7	2.4	3.5	1.9	1.4	0.5	0.4	0.6	0.3
15.....	3.4	7.0	7.5	8.7	3.6	3.2	1.9	1.4	0.4	0.5	0.6	0.3
16.....	3.2	6.5	6.8	8.0	3.7	3.0	2.1	1.5	0.4	0.5	0.6	0.3
17.....	3.0	7.7	4.9	7.7	3.0	2.7	2.2	1.4	0.4	0.7	0.7	0.3
18.....	2.9	8.4	4.8	7.4	2.7	2.5	2.1	1.5	0.4	0.6	1.2	0.3
19.....	2.7	8.4	4.7	7.0	2.5	2.2	2.2	1.9	0.4	0.4	1.1	0.4
20.....	2.5	8.3	4.5	6.8	2.3	2.1	2.1	1.8	0.4	0.4	1.1	0.9
21.....	2.4	8.3	4.0	6.3	2.2	2.0	2.0	1.6	0.4	0.4	1.5	1.8
22.....	2.3	8.4	3.9	5.6	2.0	1.9	1.8	1.5	0.4	0.4	2.1	1.4
23.....	2.1	8.5	3.8	5.0	2.0	1.8	1.7	1.5	0.4	0.4	2.0	1.4
24.....	2.1	7.7	3.8	4.9	2.0	1.8	1.5	1.4	0.4	0.3	1.7	1.8
25.....	2.0	6.3	4.1	4.7	1.9	1.8	1.5	1.4	0.4	0.3	1.6	2.0
26.....	2.0	4.9	5.1	4.5	1.8	2.0	1.5	1.2	0.4	0.3	1.4	1.9
27.....	2.0	4.1	6.3	4.1	1.7	1.9	1.4	1.2	0.4	0.3	1.1	1.7
28.....	2.3	4.4	6.8	3.8	1.7	1.8	1.3	1.0	0.4	0.3	1.0	1.6
29.....	2.6		7.2	3.5	1.6	1.8	1.2	0.9	0.4	0.3	0.8	1.4
30.....	2.5		7.2	3.5	1.8	1.8	1.0	0.8	0.4	0.3	0.8	1.4
31.....	2.5		6.2		2.2		1.1	0.8		0.3		1.6
<b>Means.</b>	<b>2.7</b>	<b>6.4</b>	<b>6.6</b>	<b>5.8</b>	<b>2.5</b>	<b>3.0</b>	<b>1.7</b>	<b>1.4</b>	<b>0.5</b>	<b>0.4</b>	<b>0.9</b>	<b>0.9</b>
<b>1904</b>												
1.....	1.6	2.0	2.8	5.3	1.9	1.7	1.1	0.8	0.9	0.2	0.0	0.4
2.....	1.6	1.8	3.1	4.9	1.9	2.1	1.2	0.8	0.9	0.2	0.0	0.5
3.....	1.5	1.7	3.1	4.3	2.1	2.4	1.3	0.9	0.8	0.2	0.0	0.5
4.....	1.3	1.6	3.0	4.0	2.6	2.3	1.4	0.9	0.8	0.2	0.2	0.5
5.....	1.2	1.5	2.8	3.5	2.6	2.0	1.4	0.9	0.8	0.2	0.3	0.7
6.....	1.1	1.4	2.7	3.2	2.4	2.0	1.6	0.9	0.7	0.2	0.3	1.0
7.....	1.0	1.4	2.6	3.0	2.2	2.0	1.6	1.0	0.6	0.2	0.3	1.6
8.....	1.0	1.4	3.1	3.0	2.1	2.0	1.6	1.1	0.6	0.3	0.2	1.7
9.....	1.0	1.5	3.1	3.1	2.0	2.0	1.6	1.2	0.6	0.3	0.2	1.9
10.....	0.9	1.6	3.6	3.2	2.2	1.8	1.5	1.5	0.7	0.3	0.2	2.1
11.....	0.8	2.0	3.9	3.1	2.2	1.6	1.3	1.6	0.8	0.2	0.2	2.3
12.....	0.8	2.3	4.2	3.0	2.3	1.5	1.2	1.8	0.8	0.2	0.2	2.2
13.....	0.8	2.2	4.1	2.8	2.5	1.4	1.3	1.8	0.7	0.1	0.2	1.9
14.....	0.8	2.2	4.1	2.8	2.6	1.3	1.4	1.7	0.6	0.1	0.2	1.6
15.....	0.8	2.1	4.1	2.5	2.6	1.2	1.3	1.6	0.5	0.1	0.2	1.4
16.....	0.8	2.0	4.1	2.4	2.4	1.2	1.4	1.6	0.5	0.1	0.3	1.3
17.....	1.0	1.8	4.0	2.2	2.2	1.1	1.4	1.6	0.4	0.1	0.3	1.2
18.....	1.1	1.7	3.7	2.1	2.0	1.1	1.4	1.5	0.4	0.1	0.3	1.1
19.....	1.2	1.6	3.4	2.0	2.0	1.0	1.3	1.4	0.4	0.1	0.3	1.0
20.....	1.2	1.6	3.1	2.0	1.9	1.0	1.1	1.5	0.4	0.1	0.2	1.1
21.....	1.5	1.6	3.1	2.0	1.8	1.0	1.0	1.5	0.4	0.0	0.3	1.0
22.....	1.8	1.6	4.0	2.0	1.7	1.0	1.0	1.3	0.4	0.0	0.4	0.9
23.....	2.5	1.6	4.4	2.0	1.6	1.0	1.0	1.1	0.3	0.0	0.4	0.9
24.....	2.8	1.9	5.5	1.9	1.5	0.9	0.9	1.1	0.3	0.0	0.4	1.0
25.....	3.4	2.3	6.6	1.8	1.4	0.9	0.9	1.0	0.3	0.0	0.4	1.0
26.....	4.0	2.7	7.0	1.8	1.4	0.9	0.7	0.8	0.2	0.0	0.3	1.1
27.....	3.6	2.9	8.2	1.8	1.4	1.1	0.7	0.8	0.2	0.0	0.3	1.3
28.....	3.2	2.9	8.2	1.8	1.2	1.0	0.8	0.8	0.2	0.0	0.3	2.4
29.....	3.0	2.7	7.5	1.8	1.2	1.1	0.8	0.8	0.2	0.0	0.3	3.0
30.....	2.5		7.1	1.8	1.2	1.1	1.0	0.8	0.2	0.0	0.4	3.6
31.....	2.2		6.3		1.3		0.9	0.8		0.0		4.1
<b>Means.</b>	<b>1.7</b>	<b>1.9</b>	<b>4.4</b>	<b>2.7</b>	<b>1.9</b>	<b>1.4</b>	<b>1.2</b>	<b>1.2</b>	<b>0.5</b>	<b>0.1</b>	<b>0.3</b>	<b>1.5</b>

## OHIO RIVER SYSTEM—TENNESSEE RIVER, FLORENCE, ALA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	3.7	3.1	8.0	7.5	6.7	2.4	9.5	5.6	1.3	0.9	2.8	10.3
2.....	3.2	2.8	8.5	7.0	6.5	2.5	9.1	5.2	1.2	0.8	2.1	9.7
3.....	2.8	2.7	7.5	6.2	5.7	2.9	8.4	4.6	1.2	0.8	1.7	7.5
4.....	2.2	2.3	8.0	6.0	5.2	3.3	8.4	3.9	1.0	0.8	1.5	5.3
5.....	1.7	2.5	8.4	6.0	4.4	3.5	7.4	3.3	0.8	0.6	1.3	4.3
6.....	1.2	2.9	8.8	5.9	4.2	4.8	6.1	2.8	0.8	0.5	1.0	4.0
7.....	1.1	3.2	10.1	6.2	4.0	5.4	5.3	2.4	0.9	0.5	1.5	4.0
8.....	1.1	3.1	11.0	6.6	3.9	6.0	4.6	2.0	0.8	0.9	1.7	4.5
9.....	1.1	3.7	11.1	6.6	3.8	6.1	4.2	1.7	0.7	1.0	1.9	5.6
10.....	1.3	5.8	11.5	6.2	3.6	6.4	3.9	1.5	0.7	0.7	2.2	6.0
11.....	2.0	6.0	12.0	8.6	3.4	6.1	3.0	1.3	0.5	0.9	2.2	5.8
12.....	4.7	7.0	12.2	11.1	3.2	5.1	3.2	1.2	0.4	1.4	1.9	5.1
13.....	5.8	8.6	12.0	11.2	3.2	4.9	3.3	1.0	0.3	4.1	1.7	4.4
14.....	7.2	11.5	11.3	10.9	2.9	3.8	3.0	0.9	0.3	3.4	1.4	3.8
15.....	7.8	12.7	9.9	9.2	2.8	5.4	2.8	0.8	0.3	3.0	1.0	3.3
16.....	7.7	14.0	8.6	8.2	2.7	5.0	2.5	0.8	0.4	2.5	0.9	3.0
17.....	7.1	14.7	7.7	9.8	2.5	5.3	2.3	0.8	0.6	1.8	0.8	2.6
18.....	6.5	14.7	6.9	17.5	2.4	5.5	2.2	0.8	0.7	1.5	0.7	2.4
19.....	6.4	14.1	6.5	19.2	2.3	5.6	2.3	1.1	1.3	1.0	0.6	2.2
20.....	7.2	11.0	7.5	19.2	2.2	5.9	2.3	1.0	1.9	0.9	0.7	2.0
21.....	8.6	9.0	9.0	18.7	2.2	6.5	2.2	0.9	2.2	0.8	1.2	2.1
22.....	9.6	7.2	9.3	15.5	2.1	6.9	2.2	0.9	2.5	0.9	1.4	2.3
23.....	9.0	7.2	9.4	14.0	2.1	7.6	1.8	0.9	2.5	0.9	1.3	2.8
24.....	8.2	7.4	11.0	13.0	2.7	8.8	1.8	1.0	2.0	1.1	1.1	3.1
25.....	7.2	7.5	12.0	12.0	2.6	9.4	1.7	0.8	1.7	1.3	1.3	3.6
26.....	6.2	7.7	12.2	11.0	2.3	9.5	1.7	0.8	1.3	1.0	2.8	3.8
27.....	5.5	6.6	11.2	10.2	2.0	11.3	2.3	0.7	0.9	1.4	4.4	4.0
28.....	4.8	7.3	10.0	8.9	2.0	13.4	3.4	0.7	0.9	3.3	6.7	4.0
29.....	4.2		9.0	7.8	1.9	12.3	3.1	0.9	0.9	4.7	9.4	3.7
30.....	3.9		8.5	7.0	2.2	10.9	3.1	1.3	1.0	4.2	10.3	3.5
31.....	3.4		8.2		2.3		4.8	1.6		3.5		3.3
<b>Means.</b>	<b>4.9</b>	<b>7.4</b>	<b>9.6</b>	<b>10.2</b>	<b>3.2</b>	<b>6.4</b>	<b>3.9</b>	<b>1.7</b>	<b>1.1</b>	<b>1.6</b>	<b>2.0</b>	<b>4.3</b>
<b>1901</b>												
1.....	3.5	5.5	2.4	13.4	10.2	10.2	5.0	1.0	7.4	3.5	1.1	1.0
2.....	3.8	5.6	2.4	12.5	9.2	9.4	4.4	1.0	7.1	3.2	1.1	1.0
3.....	4.0	6.3	2.5	12.9	8.1	8.9	3.9	1.0	7.0	3.0	1.0	1.1
4.....	4.1	9.6	2.6	13.2	7.0	8.1	3.7	1.0	6.8	2.9	1.0	1.1
5.....	4.1	10.7	2.6	14.1	6.2	7.2	3.7	0.9	6.7	3.0	1.0	1.1
6.....	4.0	10.5	2.6	15.0	5.7	6.3	3.8	1.1	6.8	3.0	1.0	1.1
7.....	3.8	10.2	2.9	15.3	5.2	5.6	3.7	1.8	6.5	2.8	1.0	1.1
8.....	3.4	9.7	3.2	15.3	4.5	5.0	3.5	1.1	5.6	2.8	1.0	1.1
9.....	3.1	8.8	3.5	14.5	4.5	5.0	3.2	1.0	4.8	2.7	1.0	1.2
10.....	3.0	8.7	6.6	12.5	4.3	5.2	3.0	3.5	4.2	2.6	1.0	1.3
11.....	4.0	8.0	11.2	10.2	4.1	5.3	3.1	7.0	3.8	2.3	1.0	1.4
12.....	10.0	7.2	12.1	8.2	4.0	5.1	3.0	6.6	3.5	2.3	1.0	1.6
13.....	13.7	6.6	11.7	7.2	3.8	5.7	3.9	5.6	3.4	2.0	1.0	2.0
14.....	15.0	6.6	11.0	6.7	3.7	5.4	3.5	4.4	3.2	2.0	1.0	2.7
15.....	15.8	5.9	9.3	6.4	3.7	4.7	3.0	4.0	3.6	2.0	1.0	7.5
16.....	16.2	5.8	7.7	6.9	3.6	4.3	2.5	6.0	5.8	2.1	1.0	11.9
17.....	16.2	5.5	6.6	7.2	3.5	4.2	2.2	12.7	6.3	2.3	1.0	15.0
18.....	15.6	5.0	5.6	7.8	3.3	4.6	2.1	15.1	7.8	2.3	1.0	15.9
19.....	13.5	4.7	5.0	9.9	3.2	5.7	2.0	16.7	7.8	2.3	1.0	16.2
20.....	9.6	4.0	4.6	12.8	3.1	6.3	2.1	18.0	8.0	2.3	1.0	16.2
21.....	7.4	4.0	4.5	15.0	3.9	6.2	2.0	18.5	7.9	2.1	1.0	15.6
22.....	6.2	3.8	4.6	15.8	6.0	5.9	1.9	19.0	7.2	1.9	0.9	12.7
23.....	5.7	3.5	4.4	16.3	9.1	5.5	2.0	18.4	6.2	1.8	0.9	9.0
24.....	5.3	3.2	4.0	16.2	12.0	5.2	2.0	17.6	5.5	1.6	0.9	7.8
25.....	6.5	3.2	4.1	16.0	13.5	6.1	1.9	16.3	4.7	1.5	0.9	5.9
26.....	6.5	2.9	4.5	15.7	14.6	6.2	1.9	15.0	4.1	1.5	1.0	5.9
27.....	6.4	3.8	5.9	15.0	15.5	5.3	1.8	13.5	3.6	1.4	1.0	6.3
28.....	6.1	2.6	8.1	13.7	16.2	5.8	1.5	11.4	3.4	1.3	1.0	8.0
29.....	5.7		10.9	12.1	16.2	6.4	1.3	9.5	3.5	1.3	1.0	11.0
30.....	5.4		12.6	11.1	15.1	5.8	1.1	8.5	3.8	1.3	1.0	14.5
31.....	5.4		13.4		13.1		1.0	8.0		1.2		16.2
<b>Means.</b>	<b>7.5</b>	<b>6.1</b>	<b>6.2</b>	<b>12.3</b>	<b>7.6</b>	<b>6.0</b>	<b>2.7</b>	<b>8.6</b>	<b>5.5</b>	<b>2.2</b>	<b>1.0</b>	<b>6.9</b>

## OHIO RIVER SYSTEM—TENNESSEE RIVER, FLORENCE, ALA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	17.2	15.7	12.8	17.8	3.9	2.6	2.0	1.0	0.2	1.6	-0.3	4.8
2.....	17.9	16.3	14.8	17.0	3.9	2.7	2.3	1.2	0.3	1.7	-0.3	5.0
3.....	18.7	16.7	15.5	16.7	4.1	2.6	4.2	1.2	0.3	1.6	-0.3	5.2
4.....	19.8	16.7	16.5	17.7	6.3	2.3	6.5	1.0	0.5	1.6	-0.3	5.6
5.....	20.6	16.4	17.7	17.5	7.0	2.0	6.0	0.9	0.4	1.6	-0.3	6.1
6.....	21.0	16.0	19.3	15.0	6.5	1.9	5.2	0.9	0.1	1.6	-0.2	7.3
7.....	20.8	15.2	20.3	12.0	5.5	1.9	4.5	0.9	0.1	1.3	-0.2	6.9
8.....	18.5	14.4	20.8	10.3	4.8	1.9	3.8	0.9	0.1	1.0	-0.2	6.3
9.....	13.5	12.5	21.0	9.9	4.3	1.9	3.1	1.0	0.1	0.8	-0.2	5.8
10.....	9.6	9.3	20.4	9.3	4.0	1.6	2.4	1.0	0.1	0.6	-0.2	5.2
11.....	8.5	7.8	19.0	8.7	4.0	1.6	2.2	0.9	0.1	0.8	-0.2	4.7
12.....	6.5	6.8	16.4	8.0	3.7	1.6	2.0	0.8	0.1	0.7	-0.1	4.0
13.....	5.8	6.2	14.0	7.7	3.4	1.6	1.9	0.8	0.1	1.2	0.1	3.5
14.....	5.4	5.8	11.9	7.3	3.2	1.6	1.7	0.9	0.1	0.8	0.1	3.0
15.....	5.0	5.6	9.8	6.9	3.1	1.6	1.6	1.0	0.1	1.5	0.1	2.7
16.....	4.7	5.6	9.0	6.6	2.9	1.6	1.8	1.0	0.1	1.3	0.1	5.7
17.....	4.4	5.6	9.6	6.3	3.0	1.5	2.0	0.9	0.3	1.1	0.1	6.2
18.....	4.1	5.2	9.8	6.1	3.0	1.4	2.5	0.8	0.3	1.2	0.1	5.8
19.....	4.0	5.0	10.5	5.9	2.9	1.4	2.2	0.7	0.3	1.3	-0.1	5.5
20.....	4.5	4.8	10.9	5.6	2.9	1.4	1.8	0.5	0.3	1.3	-0.2	6.1
21.....	4.8	4.7	10.5	5.4	2.8	1.7	1.7	0.5	0.2	1.2	-0.2	6.5
22.....	5.7	4.7	9.9	5.3	2.8	2.1	1.3	0.5	0.1	1.0	-0.2	7.4
23.....	6.0	4.9	9.5	5.2	2.7	2.4	1.3	0.5	0.1	0.8	-0.2	7.4
24.....	6.4	5.2	8.4	5.0	2.6	2.4	1.1	0.2	0.1	0.5	-0.2	7.5
25.....	6.2	5.8	7.5	4.8	2.7	2.3	1.1	0.2	0.1	0.4	1.0	7.7
26.....	6.3	7.2	7.2	4.7	2.7	2.1	1.1	0.2	0.5	0.2	2.2	6.7
27.....	7.5	7.5	7.1	4.5	2.7	2.0	1.1	0.2	0.8	0.2	2.8	5.9
28.....	9.6	8.7	7.2	4.4	2.7	1.8	1.0	0.1	0.9	0.0	3.2	5.0
29.....	9.6		21.7	4.2	2.5	2.0	0.9	0.1	1.2	-0.1	4.0	4.8
30.....	11.2		19.0	4.0	2.2	2.0	1.1	0.3	1.9	-0.1	4.5	4.3
31.....	14.0		18.9		2.3		1.0	0.2		-0.2		4.1
<b>Means.</b>	<b>10.3</b>	<b>9.2</b>	<b>13.8</b>	<b>8.7</b>	<b>3.6</b>	<b>1.9</b>	<b>2.3</b>	<b>0.7</b>	<b>0.3</b>	<b>0.9</b>	<b>0.5</b>	<b>5.6</b>
<b>1903</b>												
1.....	3.8	4.0	13.7	13.0	6.6	5.0	2.7	0.7	0.2	-0.4	-0.4	0.1
2.....	4.0	3.9	16.0	12.5	6.5	6.5	2.8	0.7	0.1	-0.4	-0.4	0.1
3.....	5.3	4.2	16.8	12.7	6.3	7.0	2.5	0.8	0.0	-0.4	-0.2	0.1
4.....	5.6	8.0	17.5	12.3	6.0	7.7	2.4	1.2	0.0	-0.4	-0.1	0.0
5.....	5.5	10.5	18.0	11.3	5.4	10.0	2.2	1.1	0.0	-0.5	0.4	0.0
6.....	5.5	12.3	18.7	10.3	5.1	10.0	2.0	1.3	0.0	-0.5	0.3	-0.1
7.....	5.8	13.7	18.7	9.5	4.7	9.3	2.0	2.5	0.0	-0.5	0.2	-0.2
8.....	5.6	15.7	18.2	9.5	4.5	8.7	2.0	2.4	0.0	-0.2	0.1	-0.2
9.....	6.0	16.6	17.1	10.7	4.5	8.3	2.2	2.5	-0.1	-0.1	0.2	-0.3
10.....	5.7	16.0	16.6	12.8	4.3	8.0	2.1	2.5	-0.1	-0.1	0.2	-0.3
11.....	5.7	16.0	16.7	14.5	4.0	8.0	2.1	1.8	-0.1	-0.2	0.1	-0.3
12.....	5.8	16.7	16.8	15.5	3.9	7.7	2.1	2.0	-0.1	-0.3	-0.1	-0.3
13.....	5.9	16.0	16.8	16.5	3.8	7.0	2.8	1.8	-0.2	-0.2	-0.1	-0.3
14.....	5.7	15.0	16.6	18.0	3.8	6.5	2.7	1.4	-0.2	-0.1	-0.1	-0.2
15.....	5.6	15.0	15.9	18.0	6.2	5.9	2.7	1.3	-0.2	-0.1	-0.1	-0.2
16.....	6.0	14.5	14.5	17.3	6.1	5.2	3.2	1.2	-0.2	-0.1	-0.1	-0.2
17.....	5.6	16.5	13.0	16.4	4.7	4.7	3.5	1.7	-0.2	0.4	0.0	-0.2
18.....	5.1	17.5	11.5	15.5	4.5	4.4	3.5	2.2	-0.2	0.0	0.8	-0.2
19.....	4.7	17.5	10.0	14.9	4.1	3.7	3.5	2.3	-0.2	-0.1	0.8	-0.2
20.....	4.5	17.5	8.9	14.3	3.6	3.2	3.3	2.2	-0.2	-0.2	0.6	0.5
21.....	4.0	17.3	8.0	13.2	3.2	2.9	2.9	1.9	-0.2	-0.3	1.7	2.6
22.....	3.7	17.7	7.9	11.8	3.0	2.7	2.5	1.7	-0.2	-0.3	3.5	1.6
23.....	3.5	17.6	7.7	10.5	2.9	2.5	2.0	1.7	-0.2	-0.3	3.0	1.6
24.....	3.2	16.5	7.7	9.9	2.7	2.6	1.9	1.6	-0.2	-0.4	2.8	2.5
25.....	3.0	13.6	8.3	9.5	2.5	2.5	1.9	1.2	-0.2	-0.4	1.8	3.0
26.....	2.9	10.0	11.0	8.8	2.3	3.0	1.6	1.0	-0.2	-0.4	1.2	2.6
27.....	2.8	8.1	13.2	8.0	2.2	2.7	1.3	1.0	-0.2	-0.4	0.8	2.4
28.....	3.7	8.7	14.4	7.5	2.2	2.5	1.2	0.7	-0.2	-0.4	0.6	2.0
29.....	4.5		15.2	7.0	1.9	2.5	1.0	0.5	-0.2	-0.4	0.5	1.8
30.....	4.2		15.2	6.6	2.0	2.5	0.9	0.5	-0.3	-0.4	0.2	1.7
31.....	4.2		14.0		2.7		0.9	0.4		-0.4		1.8
<b>Means.</b>	<b>4.7</b>	<b>13.4</b>	<b>14.0</b>	<b>12.3</b>	<b>4.1</b>	<b>5.4</b>	<b>2.3</b>	<b>1.5</b>	<b>-0.1</b>	<b>-0.3</b>	<b>0.6</b>	<b>0.7</b>



## OHIO RIVER SYSTEM—TENNESSEE RIVER, FLORENCE, ALA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	1.9	3.3	5.0	11.3	2.5	2.5	0.9	0.5	0.6	0.2	-0.5	-0.1
2.....	2.0	2.7	5.7	10.3	2.8	3.2	1.0	0.5	0.6	0.2	-0.5	0.1
3.....	1.8	2.3	5.8	8.8	3.3	4.0	1.1	0.8	0.5	0.1	-0.5	0.1
4.....	1.6	2.1	5.5	7.7	4.5	3.7	1.5	0.7	0.5	0.0	-0.4	0.1
5.....	1.1	1.8	5.4	6.6	4.5	3.3	1.6	0.7	0.5	0.0	-0.3	0.1
6.....	0.8	1.6	4.9	5.7	4.2	2.8	2.1	0.8	0.3	0.0	-0.2	0.6
7.....	0.7	1.5	4.6	5.5	3.8	2.5	2.1	1.0	0.3	0.0	-0.2	1.7
8.....	0.6	1.3	5.6	5.2	3.5	3.3	2.3	1.0	0.3	0.0	-0.2	2.1
9.....	0.5	1.3	6.0	5.7	3.5	3.2	2.3	1.2	0.3	0.0	-0.2	2.7
10.....	0.5	1.8	6.8	5.8	3.4	2.6	1.7	1.7	0.3	0.0	-0.2	3.1
11.....	0.4	3.0	8.0	5.8	3.7	2.3	1.4	2.0	0.4	-0.1	-0.2	3.5
12.....	0.3	3.8	8.2	5.5	4.0	2.0	1.2	2.7	0.5	-0.1	-0.2	3.3
13.....	0.3	3.8	8.2	5.0	4.2	1.6	1.2	2.5	0.4	-0.2	-0.2	2.8
14.....	0.4	3.7	8.0	4.8	4.6	1.6	1.3	2.3	0.4	-0.2	-0.2	2.2
15.....	0.5	3.3	8.3	4.3	4.2	1.3	1.3	2.1	0.5	-0.2	-0.1	1.7
16.....	0.5	3.1	8.1	4.0	4.0	1.1	1.4	2.3	0.4	-0.2	-0.1	1.2
17.....	0.6	2.7	8.1	3.8	3.5	1.0	1.5	2.1	0.4	-0.3	-0.1	1.0
18.....	0.6	2.6	7.5	3.5	3.1	0.9	1.5	1.7	0.4	-0.3	-0.1	0.9
19.....	1.1	2.1	6.5	3.2	3.0	0.9	1.4	1.7	0.4	-0.3	-0.2	0.8
20.....	1.3	1.9	5.8	3.0	2.8	0.8	1.0	2.0	0.3	-0.3	-0.2	0.7
21.....	1.6	1.9	5.5	3.0	2.5	0.7	1.0	1.7	0.4	-0.4	-0.2	0.6
22.....	2.5	1.8	7.8	3.1	2.3	0.7	0.9	1.7	0.4	-0.4	-0.1	0.5
23.....	4.2	2.0	9.0	3.0	2.0	0.7	0.9	1.1	0.4	-0.4	0.0	0.4
24.....	4.9	2.8	11.1	2.8	1.9	0.5	0.8	1.0	0.3	-0.4	0.0	0.4
25.....	6.5	4.0	13.7	2.7	1.4	0.5	0.6	1.0	0.3	-0.4	0.0	0.5
26.....	8.0	5.0	14.7	2.6	1.4	0.8	0.6	0.9	0.2	-0.4	0.0	1.0
27.....	7.0	5.3	17.2	2.5	1.4	0.7	0.5	0.7	0.2	-0.4	-0.1	1.3
28.....	5.9	5.5	17.2	2.5	1.3	0.7	0.6	0.8	0.2	-0.5	-0.1	4.0
29.....	5.1	5.0	16.0	2.5	1.2	1.0	0.5	1.0	0.2	-0.5	-0.1	5.3
30.....	4.4	.....	14.8	2.3	1.3	1.1	0.5	1.0	0.2	-0.5	-0.1	7.0
31.....	3.3	.....	13.8	.....	1.3	.....	0.5	0.8	.....	-0.5	.....	8.5
Means.	2.3	2.9	8.8	4.8	2.9	1.7	1.2	1.4	0.4	-0.2	-0.2	1.9

## OHIO RIVER SYSTEM—TENNESSEE RIVER, RIVERTON, ALA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	4.8	3.6	11.0	10.6	9.3	2.5	16.9	6.7	1.2	0.1	3.4	14.4
2.....	4.0	3.2	11.7	9.5	8.5	2.7	15.2	6.7	0.8	0.0	2.4	13.5
3.....	3.3	2.8	11.5	8.4	7.6	4.5	13.3	5.9	0.7	-0.1	1.6	10.5
4.....	2.5	2.5	10.9	7.8	6.7	4.5	12.5	4.9	0.4	-0.3	1.1	7.6
5.....	1.7	2.4	11.1	7.6	6.0	5.5	11.2	4.0	0.0	-0.4	0.9	5.7
6.....	1.0	3.2	12.2	7.5	5.4	7.0	9.0	3.3	-0.1	-0.7	0.7	5.0
7.....	0.6	3.6	13.4	7.9	5.0	8.1	7.3	2.6	0.0	-0.6	0.8	4.7
8.....	0.4	3.7	15.2	8.3	4.6	8.8	6.2	2.0	-0.1	-0.2	1.1	5.3
9.....	0.5	4.6	16.2	8.4	4.8	9.1	5.8	1.5	-0.1	0.5	1.4	6.7
10.....	0.6	7.2	16.6	8.2	4.5	8.9	5.0	1.2	-0.4	0.0	1.9	7.6
11.....	1.2	7.7	17.1	11.1	4.0	8.5	4.4	0.8	-0.7	-0.3	2.1	7.7
12.....	5.0	8.6	17.7	16.9	3.7	7.3	3.9	0.5	-0.9	0.6	1.8	6.9
13.....	7.6	10.7	17.8	18.6	3.5	6.5	3.7	0.3	-1.0	4.6	1.4	5.8
14.....	9.0	14.5	17.0	17.6	3.2	6.3	3.6	0.2	-1.2	4.5	1.0	4.9
15.....	10.3	17.3	15.0	15.4	3.1	7.2	3.2	0.0	-1.3	3.6	0.7	4.2
16.....	10.6	19.8	12.6	12.7	2.9	7.2	2.9	-0.1	-1.3	3.0	0.5	3.7
17.....	9.8	21.5	10.8	11.8	2.7	7.0	2.5	0.0	-0.9	2.1	0.3	3.2
18.....	9.1	22.2	9.5	22.8	2.7	7.3	2.3	-0.1	-0.5	1.1	0.1	2.8
19.....	8.5	21.8	8.7	28.6	2.7	7.6	2.3	0.0	0.0	0.5	0.0	2.5
20.....	8.7	19.5	9.3	29.9	2.5	7.8	2.4	0.5	1.3	0.1	0.2	2.3
21.....	10.8	15.2	11.8	31.4	2.2	8.0	2.4	0.2	2.0	-0.1	0.9	2.6
22.....	12.2	11.3	12.7	29.5	2.0	9.1	2.0	0.1	2.6	-0.1	1.7	2.7
23.....	12.5	10.0	13.5	26.5	2.0	9.7	1.9	0.0	2.8	0.0	1.5	3.4
24.....	11.6	9.8	14.9	24.2	3.6	11.0	2.1	0.5	2.3	0.6	1.2	3.9
25.....	10.1	10.0	16.5	21.9	3.3	14.6	1.8	0.1	1.5	0.5	1.2	4.5
26.....	8.6	10.3	17.1	18.6	2.8	14.4	1.7	-0.2	0.8	0.3	2.0	4.7
27.....	7.4	10.2	17.2	16.0	2.2	19.4	1.8	-0.3	0.3	1.0	5.4	5.0
28.....	6.2	10.2	15.2	14.0	1.9	23.4	3.9	-0.3	0.2	2.4	7.0	5.1
29.....	5.4	.....	13.3	11.7	1.9	22.0	3.8	-0.3	0.3	5.3	11.8	4.8
30.....	4.7	.....	12.2	10.1	1.9	19.7	3.5	0.4	0.3	5.4	14.0	4.4
31.....	4.1	.....	11.4	.....	2.3	.....	4.7	1.2	.....	4.4	.....	4.1
Means.	6.2	10.3	13.6	15.8	3.9	9.5	5.3	1.4	0.3	1.2	2.3	5.5

\*To reduce to zero of gage in use on and after November 1, 1904, add 1.2 feet.

## DESCRIPTION OF RIVER GAGES, ETC.

OHIO RIVER SYSTEM—TENNESSEE RIVER, RIVERTON, ALA.—Continued.<sup>a</sup>

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	4.1	7.4	3.0	19.9	15.2	17.0	6.5	0.3	10.1	4.1	0.4	0.3
2.....	4.5	7.4	2.8	19.4	14.0	13.9	5.6	0.4	9.4	3.7	0.3	0.3
3.....	4.9	7.8	2.8	19.2	12.0	12.7	4.8	0.4	9.1	3.5	0.3	0.3
4.....	5.1	12.8	3.0	19.8	10.0	11.3	4.4	0.3	9.8	3.1	0.4	0.1
5.....	5.3	15.9	3.2	20.8	8.5	10.1	4.3	0.3	8.6	3.3	0.2	0.0
6.....	5.1	16.0	2.9	21.9	7.6	8.7	4.4	0.6	8.7	3.2	0.3	0.0
7.....	4.8	15.6	3.2	22.9	6.8	7.6	4.5	1.5	8.5	3.0	0.3	0.1
8.....	4.3	14.5	3.7	23.2	6.1	6.7	4.2	1.9	7.3	2.8	0.2	0.2
9.....	3.8	13.2	4.3	22.9	5.8	6.1	3.7	0.4	6.2	3.0	0.2	0.4
10.....	3.6	12.6	7.0	21.0	5.3	6.7	3.4	0.4	5.3	2.7	0.2	0.9
11.....	5.0	11.7	15.2	16.2	5.0	6.9	3.5	8.1	4.7	2.4	0.2	1.2
12.....	12.0	10.5	18.6	13.2	4.7	6.6	3.7	8.8	4.2	2.1	0.2	1.4
13.....	19.5	9.4	18.4	10.5	4.6	7.1	4.3	7.2	3.8	2.1	0.1	1.6
14.....	22.3	8.5	17.3	9.2	4.5	7.2	4.3	5.4	3.8	1.9	0.1	2.9
15.....	24.0	7.9	14.8	8.7	4.4	6.3	3.7	5.4	4.2	2.0	0.1	7.0
16.....	25.1	7.7	10.9	8.9	4.3	5.4	3.0	5.8	6.8	1.9	0.0	13.7
17.....	25.4	7.3	9.5	10.5	4.2	5.0	2.4	15.0	7.8	2.1	0.0	20.1
18.....	25.2	6.8	7.8	10.7	4.1	5.2	2.2	21.5	10.1	2.3	0.2	22.7
19.....	23.4	6.3	6.7	12.4	3.9	6.5	1.9	24.8	11.2	2.2	0.2	23.9
20.....	18.1	5.4	6.0	17.0	4.0	7.7	1.9	27.1	10.5	2.1	0.1	24.3
21.....	12.5	5.1	5.6	21.4	4.3	7.9	2.1	28.4	10.6	1.9	0.0	24.4
22.....	9.0	4.7	5.8	23.3	5.3	7.6	1.9	29.3	9.9	1.7	0.0	22.3
23.....	7.3	4.4	5.7	24.4	10.3	7.1	1.7	29.7	8.5	1.4	0.0	16.4
24.....	7.4	4.0	5.3	25.0	15.2	6.5	1.9	29.3	7.3	1.2	-0.1	10.4
25.....	8.1	3.8	5.0	25.3	18.5	6.0	1.7	28.0	6.1	1.0	0.0	7.9
26.....	8.8	3.6	5.2	24.9	20.7	8.0	1.5	26.0	5.2	0.8	0.0	7.3
27.....	8.7	3.3	5.6	24.3	22.3	7.1	1.3	23.9	4.4	0.8	0.0	7.5
28.....	8.4	3.1	9.3	22.5	23.8	6.7	1.1	20.2	3.8	0.7	-0.1	9.6
29.....	7.9		13.6	20.3	24.8	7.9	0.8	16.0	4.0	0.6	0.2	13.1
30.....	7.4		17.2	17.7	24.6	7.7	0.6	12.8	4.4	0.6	0.4	19.1
31.....	7.2		19.0		21.7		0.5	11.2		0.5		23.0
<b>Means.</b>	10.9	8.5	8.3	18.6	10.6	7.9	3.0	12.6	7.1	2.1	0.1	9.1
<b>1902</b>												
1.....	25.2	23.8	17.3	31.8	4.5	2.6	1.4	-0.2	-1.1	1.8	-1.3	6.2
2.....	26.6	25.4	20.7	30.2	4.3	2.9	1.4	1.2	-0.9	1.9	-1.4	6.8
3.....	28.0	26.0	23.0	29.5	4.5	2.7	4.0	0.5	-0.6	1.7	-1.4	6.9
4.....	29.0	26.3	24.6	29.7	6.7	2.5	7.3	-0.1	0.0	1.6	-1.5	7.7
5.....	30.9	26.0	26.2	29.6	9.1	2.2	7.6	-0.2	-0.4	1.4	-1.4	8.3
6.....	32.0	25.6	28.5	28.2	8.8	2.2	6.4	-0.4	-0.9	1.4	-1.2	9.8
7.....	32.7	25.0	30.3	24.5	7.3	2.2	5.4	-0.5	-1.1	1.2	-1.1	9.7
8.....	32.0	22.8	31.9	20.0	6.0	1.5	4.4	-0.4	-1.2	0.7	-1.2	8.9
9.....	28.0	19.0	32.9	17.1	5.2	1.3	3.5	-0.1	-1.3	0.4	-1.2	7.9
10.....	21.0	14.0	33.2	15.0	4.8	1.1	2.8	0.0	-1.4	0.1	-1.2	7.1
11.....	14.0	11.2	32.5	13.6	4.7	0.9	2.4	-0.2	-1.3	0.0	-1.3	6.2
12.....	9.7	9.5	30.8	12.0	4.3	0.9	1.9	-0.5	-1.3	-0.1	-1.1	5.4
13.....	8.0	8.5	28.0	10.8	4.0	1.0	1.6	-0.7	-1.3	0.7	-0.7	4.6
14.....	7.0	7.7	23.8	10.2	3.7	1.0	1.1	-0.5	-1.4	1.0	-0.6	3.9
15.....	6.2	7.4	19.6	9.0	3.5	1.0	0.9	0.0	-1.4	1.3	-0.6	3.5
16.....	5.7	7.4	16.2	8.5	3.4	1.0	1.0	-0.1	-1.3	1.2	-0.7	8.1
17.....	5.2	7.0	14.6	8.0	3.4	0.9	2.0	-0.3	-1.0	0.8	-0.8	10.5
18.....	4.8	7.0	15.0	7.6	3.3	0.8	2.4	-0.6	-0.7	0.8	-0.9	9.1
19.....	4.9	6.3	15.2	7.3	3.1	0.7	2.7	-0.9	-0.6	1.0	-1.0	7.9
20.....	5.1	6.1	15.6	6.9	3.2	0.6	2.0	-1.1	-0.8	1.1	-1.0	8.2
21.....	6.1	5.9	15.9	6.7	3.1	0.8	1.1	-1.2	-1.0	0.9	-1.1	9.1
22.....	6.9	5.8	15.6	6.5	3.0	1.4	0.7	-1.1	-1.1	0.6	-1.0	9.9
23.....	8.1	6.0	14.6	6.7	2.9	2.0	0.5	-1.2	-1.3	0.2	-0.9	10.3
24.....	8.8	6.2	12.6	6.0	2.8	2.4	0.2	-1.2	-1.4	-0.1	-0.7	10.4
25.....	8.3	6.9	11.2	5.7	2.9	2.2	0.0	-1.1	-0.8	-0.3	1.0	10.6
26.....	8.0	8.9	10.0	5.5	3.0	1.8	0.1	-1.2	-0.4	-0.6	2.8	9.8
27.....	9.5	10.2	9.7	5.3	3.0	1.6	0.0	-1.2	0.1	-0.7	3.6	8.4
28.....	13.0	12.0	10.3	5.1	2.8	1.4	-0.2	-1.2	0.4	-0.9	4.0	6.9
29.....	14.1		29.0	4.7	2.7	1.6	-0.5	-1.2	0.6	-1.1	4.6	6.3
30.....	16.0		32.5	4.8	2.4	1.6	0.4	-0.9	1.7	-1.1	5.9	5.8
31.....	21.0		32.4		2.4		-0.2	-0.7		-1.2		5.5
<b>Means.</b>	15.3	13.4	21.7	13.6	4.2	1.6	2.1	-0.6	-0.8	0.5	-0.1	7.7

<sup>a</sup> To reduce to zero of gage in use on and after November 1, 1904, add 1.2 feet.

OHIO RIVER SYSTEM—TENNESSEE RIVER, RIVERTON, ALA.—Continued.<sup>a</sup>

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	5.0	5.3	19.4	20.5	8.8	5.5	3.2	0.4	-0.6	-1.7	-1.7	-0.6
2.....	5.3	5.2	23.6	19.6	8.9	8.7	3.3	0.4	-0.7	-1.8	-1.4	-0.8
3.....	7.2	5.3	25.6	19.3	8.6	9.8	3.0	0.5	-0.7	-1.9	-1.5	-0.9
4.....	8.4	10.0	26.8	18.4	8.0	10.4	2.7	0.9	-0.7	-2.0	-1.3	-1.1
5.....	7.8	15.2	27.7	17.5	7.4	13.9	2.5	1.1	-0.7	-2.0	-1.0	-1.2
6.....	7.7	17.8	29.3	15.7	6.9	15.3	2.2	1.0	-0.8	-2.0	-0.3	-1.3
7.....	7.8	20.0	30.3	14.0	6.4	14.2	2.0	2.4	-1.0	-2.0	-0.4	-1.3
8.....	7.7	23.7	31.0	13.5	6.1	13.0	2.1	2.6	-1.0	-1.6	-0.7	-1.4
9.....	8.0	25.8	30.5	14.8	6.0	12.1	2.3	2.9	-1.1	-1.7	-0.6	-1.4
10.....	7.9	26.2	29.1	18.0	5.4	11.8	2.4	3.0	-1.2	-1.0	-0.5	-1.5
11.....	8.0	26.2	28.8	20.7	5.4	12.5	2.3	2.7	-1.3	-1.3	-0.7	-1.5
12.....	8.8	26.8	28.8	22.8	5.0	11.1	2.3	2.7	-1.3	-1.5	-0.8	-1.4
13.....	9.2	26.6	28.5	24.3	4.4	10.2	2.7	2.0	-1.3	-1.5	-1.0	-1.3
14.....	8.8	25.6	28.2	26.8	5.1	8.8	2.9	1.6	-1.4	-1.3	-1.0	-1.5
15.....	8.6	25.0	27.6	28.3	9.0	8.0	3.0	1.6	-1.5	-1.2	-1.0	-1.4
16.....	8.4	24.2	26.1	28.1	10.0	7.2	3.4	1.7	-1.6	-1.1	-1.0	-1.4
17.....	7.8	26.4	23.6	27.1	8.2	6.2	4.1	1.6	-1.5	-1.2	-0.9	-1.4
18.....	6.9	28.0	20.6	25.8	7.0	5.3	4.0	2.0	-1.5	-1.1	-0.8	-1.5
19.....	6.4	28.6	17.6	24.6	5.8	4.5	3.8	2.5	-1.3	-1.2	0.2	-1.4
20.....	5.8	28.7	14.5	23.4	5.1	4.1	3.8	2.6	-1.3	-1.4	0.2	0.0
21.....	5.3	28.5	12.5	22.1	4.2	3.5	3.4	2.2	-1.5	-1.5	0.9	2.4
22.....	4.8	28.6	11.7	19.9	4.1	3.2	3.0	1.7	-1.5	-1.5	3.5	2.6
23.....	4.4	28.7	11.1	17.3	3.6	3.3	2.4	1.7	-1.4	-1.6	3.8	1.5
24.....	4.1	28.1	10.8	15.3	3.5	3.0	2.0	1.5	-1.3	-1.7	3.0	2.2
25.....	3.8	25.3	11.1	14.1	3.4	3.0	2.0	1.2	-1.4	-1.7	2.1	3.4
26.....	3.7	20.1	14.4	12.9	2.8	3.7	1.7	0.9	-1.4	-1.7	1.4	3.3
27.....	3.6	14.8	18.4	11.7	2.6	3.3	1.3	0.6	-1.3	-1.7	0.8	2.8
28.....	4.9	13.2	20.8	10.7	2.6	3.1	1.0	0.3	-1.4	-1.8	0.4	2.4
29.....	6.2		22.5	9.9	2.3	2.9	0.9	-0.1	-1.5	-1.8	0.0	2.0
30.....	6.0		23.2	9.1	2.4	2.9	0.6	-0.3	-1.6	-1.8	-0.4	1.7
31.....	5.7		22.4		2.7		0.7	-0.4		-1.9		1.9
<b>Means.</b>	6.6	21.7	22.5	18.9	5.5	7.5	2.5	1.5	-1.2	-1.6	0.0	0.1
<b>1904</b>												
1.....	2.1	3.8	6.1	19.5	2.8	2.2	0.5	-0.1	0.2	-2.2	-0.5	0.9
2.....	2.2	3.1	7.1	17.6	3.0	3.3	0.5	0.2	0.1	-2.3	-0.5	1.0
3.....	1.8	2.7	8.1	14.5	3.5	4.5	1.0	0.5	-0.1	-2.4	-0.4	1.1
4.....	1.6	2.3	7.5	11.7	4.9	5.0	1.8	0.4	-0.3	-2.4	0.0	1.1
5.....	1.1	1.9	7.0	9.5	5.5	4.2	1.6	0.2	-0.4	-2.3	0.1	1.8
6.....	0.7	1.6	6.5	8.1	5.1	3.5	2.0	0.5	-0.5	-2.3	0.0	2.1
7.....	0.5	1.4	6.3	7.4	4.4	3.3	2.3	0.8	-0.7	-2.2	0.1	3.5
8.....	0.2	1.3	7.3	7.1	4.4	3.6	2.5	0.8	-0.8	-2.1	0.1	4.4
9.....	0.1	1.9	7.7	7.0	4.1	3.7	2.6	1.0	-0.7	-2.2	0.1	5.0
10.....	0.0	1.8	8.5	7.5	4.1	3.1	2.0	1.7	-0.7	-2.3	0.0	5.6
11.....	-0.2	2.9	10.2	7.6	4.3	2.4	1.4	1.9	-0.4	-2.4	0.1	6.1
12.....	-0.3	4.3	11.0	7.1	4.6	2.0	1.0	2.5	-0.3	-2.5	0.1	6.0
13.....	-0.3	4.8	11.5	6.5	5.2	1.8	0.9	2.7	-0.4	-2.6	0.2	5.4
14.....	-0.3	4.5	11.6	6.1	5.5	1.6	1.5	2.7	-0.6	-2.7	0.2	5.6
15.....	-0.2	4.1	11.5	5.5	5.5	1.2	1.3	2.1	-1.0	-2.7	0.3	3.9
16.....	-0.2	3.7	11.3	5.1	5.0	0.9	1.1	2.2	-1.2	-2.9	0.5	3.3
17.....	0.1	3.2	11.1	4.5	4.3	0.6	1.4	2.4	-1.4	-2.8	0.4	3.0
18.....	0.4	2.7	10.4	4.3	3.8	0.4	1.4	1.9	-1.6	-2.9	0.4	2.6
19.....	0.8	2.4	9.2	3.9	3.5	0.4	1.2	1.7	-1.7	-2.9	0.3	2.5
20.....	1.0	2.1	8.1	3.6	3.2	0.4	0.8	2.0	-1.7	-2.9	0.3	2.3
21.....	1.5	2.1	7.2	3.6	2.8	0.2	0.5	1.9	-1.3	-2.9	0.4	2.2
22.....	2.5	2.1	8.4	3.6	2.5	0.2	0.4	1.5	-1.6	-3.0	0.6	2.0
23.....	4.7	2.1	12.0	3.5	2.3	0.0	0.5	1.0	-1.6	-3.0	0.7	1.9
24.....	6.0	2.7	15.2	3.3	2.0	0.0	0.2	0.6	-1.7	-3.1	0.8	1.9
25.....	7.6	4.2	19.3	3.1	1.7	-0.1	-0.2	0.7	-1.9	-3.1	0.8	2.3
26.....	10.1	5.6	21.7	3.0	1.5	0.0	-0.3	0.4	-1.9	-3.0	0.9	2.6
27.....	10.0	6.6	25.5	2.8	1.6	0.6	-0.2	0.3	-2.0	-3.0	0.9	3.7
28.....	8.2	6.8	27.2	2.8	1.3	0.5	0.0	0.4	-2.0	-3.1	0.6	6.3
29.....	6.8	6.5	26.7	2.7	1.1	0.7	-0.1	0.6	-2.0	-3.1	0.6	8.5
30.....	5.9		25.1	2.6	1.2	0.5	0.0	0.6	-2.1	-3.1	0.9	10.4
31.....	4.8		22.6		1.1		-0.1	0.4		-3.1		12.6
<b>Means.</b>	2.6	3.3	12.5	6.5	3.4	1.7	1.0	1.2	-1.1	-2.7	0.3	3.9

<sup>a</sup> To reduce to zero of gage in use on and after November 1, 1904, add 1.2 feet.

b 21 A at 9 p. m.

## OHIO RIVER SYSTEM—TENNESSEE RIVER, JOHNSONVILLE, TENN.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	6.8	5.5	11.7	13.3	13.3	4.5	28.6	6.0	2.3	1.8	5.1	14.4
2.....	6.2	5.1	12.3	12.3	11.8	4.5	26.6	7.2	2.8	1.8	5.1	15.0
3.....	5.5	4.7	13.0	11.1	10.6	4.7	23.6	7.5	2.8	1.7	4.3	14.5
4.....	4.9	4.4	13.0	10.6	9.7	5.2	19.8	7.0	2.6	1.6	3.8	12.7
5.....	4.3	4.0	12.7	10.0	8.5	6.2	17.0	6.2	2.3	1.5	3.1	10.2
6.....	3.7	3.7	12.5	9.5	7.7	7.7	14.7	5.5	2.1	1.3	2.8	8.1
7.....	3.1	4.2	13.2	9.3	7.0	8.9	12.2	4.8	1.8	1.3	2.5	6.8
8.....	2.7	5.1	14.3	9.3	6.4	10.6	10.0	4.2	1.7	2.6	2.3	6.0
9.....	2.4	10.0	15.6	9.6	6.2	11.6	8.6	3.8	1.7	2.7	2.3	6.1
10.....	2.2	10.7	16.7	9.7	6.0	11.6	7.5	3.6	1.6	2.6	2.6	7.0
11.....	2.0	10.8	17.3	10.3	5.9	11.2	6.7	2.9	1.5	2.5	3.0	8.0
12.....	3.2	11.5	17.7	14.3	5.6	10.4	6.2	2.7	1.3	2.2	3.1	8.0
13.....	5.6	11.5	18.1	17.9	5.2	9.5	5.6	2.4	1.1	2.9	3.1	7.9
14.....	8.7	12.5	18.3	19.3	4.9	8.7	5.3	2.0	0.9	4.6	3.0	7.1
15.....	10.2	15.0	17.9	19.1	4.7	10.1	5.2	1.9	0.8	6.1	2.6	6.2
16.....	11.0	17.2	16.6	17.6	4.4	11.1	5.0	1.8	0.7	5.5	2.5	5.6
17.....	11.4	19.0	14.7	15.5	4.2	10.9	4.7	1.7	0.6	4.8	2.1	5.0
18.....	10.9	20.3	12.8	15.2	4.1	10.5	4.3	1.6	0.6	4.0	2.0	4.6
19.....	10.4	21.0	11.4	20.5	4.0	10.1	4.0	1.6	0.8	3.5	1.9	4.2
20.....	9.9	21.3	10.9	24.1	4.0	9.9	3.9	1.5	1.0	2.8	1.8	3.8
21.....	10.7	20.6	11.3	26.7	4.0	9.2	3.8	1.7	1.8	2.2	7.2	3.8
22.....	11.9	18.7	13.0	28.1	3.9	9.2	4.5	1.9	2.8	1.9	9.4	3.8
23.....	13.0	15.7	13.9	29.1	3.9	11.6	4.1	1.8	3.5	2.0	8.6	4.2
24.....	13.3	13.5	14.5	28.9	3.4	13.6	3.8	1.7	3.9	2.2	7.5	4.9
25.....	12.7	12.5	15.5	28.0	5.0	16.6	3.7	1.6	3.9	2.5	7.8	5.5
26.....	11.6	12.0	17.2	26.6	5.1	19.4	3.9	2.0	3.5	2.6	8.8	5.9
27.....	10.5	11.9	18.6	24.0	4.7	23.9	3.9	1.8	3.1	2.6	8.6	6.0
28.....	8.9	11.8	18.7	21.2	4.2	26.7	3.8	1.6	2.3	3.0	9.6	6.5
29.....	8.0	.....	17.5	18.3	3.8	29.1	5.6	1.5	1.8	3.4	10.0	6.9
30.....	7.0	.....	15.8	15.5	3.9	29.5	7.0	1.5	1.6	4.2	13.5	6.8
31.....	6.2	.....	14.4	.....	4.2	.....	5.8	1.7	.....	6.0	.....	6.4
<b>Means.</b>	<b>7.7</b>	<b>11.9</b>	<b>14.9</b>	<b>17.5</b>	<b>5.8</b>	<b>12.2</b>	<b>8.7</b>	<b>3.1</b>	<b>2.0</b>	<b>2.9</b>	<b>5.0</b>	<b>7.2</b>
<b>1901</b>												
1.....	6.5	9.2	4.5	17.7	21.3	22.1	8.2	2.0	13.8	5.2	2.0	1.8
2.....	6.0	9.2	4.5	19.4	19.5	18.1	7.6	1.9	12.0	5.3	2.0	1.8
3.....	6.3	9.5	4.4	20.0	17.4	17.9	6.8	1.8	10.8	5.0	1.9	1.9
4.....	6.4	12.0	4.2	20.6	15.5	14.6	6.0	1.8	8.1	4.7	1.9	1.9
5.....	6.5	15.7	4.0	21.0	13.6	13.0	5.6	1.8	9.8	4.4	1.9	1.8
6.....	6.6	17.7	4.0	21.2	11.7	11.4	5.2	1.8	9.5	4.3	1.9	1.8
7.....	6.4	18.1	4.4	21.7	10.2	10.1	5.2	1.8	9.3	4.3	1.9	1.8
8.....	6.2	17.7	4.3	22.2	8.9	9.0	5.3	2.1	9.2	4.2	1.8	1.7
9.....	5.8	16.7	4.2	22.5	7.8	8.0	5.1	2.5	8.5	4.0	1.7	1.8
10.....	5.6	15.5	5.6	22.6	7.2	7.8	4.9	2.3	7.6	4.0	1.7	2.2
11.....	6.0	14.5	9.6	21.9	6.6	8.0	4.6	2.0	6.7	3.9	1.7	2.5
12.....	9.2	13.7	15.0	19.1	6.3	8.3	4.4	6.1	5.9	3.8	1.7	2.7
13.....	14.4	12.6	18.2	16.8	6.2	8.1	4.5	8.2	5.4	3.6	1.8	2.9
14.....	19.5	11.0	19.0	14.0	5.8	8.1	4.8	8.0	5.2	3.6	1.8	4.8
15.....	21.7	10.5	18.4	11.9	5.7	8.2	5.1	7.5	6.0	3.4	1.8	7.3
16.....	22.8	9.8	16.8	10.8	5.6	7.6	4.8	6.9	6.8	3.4	1.8	10.0
17.....	23.5	9.2	15.5	10.4	5.4	6.9	4.3	8.3	8.4	3.4	1.8	15.1
18.....	23.9	8.9	12.0	10.7	5.4	6.3	3.9	15.0	10.4	3.4	1.7	18.6
19.....	24.0	8.4	10.0	12.2	5.3	6.1	3.6	19.5	11.7	3.4	1.7	20.6
20.....	23.5	7.8	9.7	14.1	5.1	6.8	3.0	22.6	12.7	3.5	1.7	21.7
21.....	21.4	7.2	7.7	17.9	5.1	7.8	3.1	24.9	12.2	3.5	1.7	22.4
22.....	17.3	6.7	7.0	21.2	5.7	8.3	3.2	26.0	11.8	3.5	1.7	22.8
23.....	13.0	6.0	7.0	22.8	5.8	8.3	3.3	26.7	11.0	3.2	1.7	22.4
24.....	10.7	5.8	6.8	23.7	10.0	7.9	3.3	27.3	10.0	3.1	1.7	19.6
25.....	11.0	5.6	6.6	24.1	14.0	7.5	3.1	27.5	8.8	2.8	1.7	15.0
26.....	11.7	5.2	6.4	24.5	16.7	7.5	3.0	27.6	7.6	2.7	1.7	11.2
27.....	12.3	5.0	6.4	24.7	18.7	8.2	2.9	27.2	6.7	2.5	1.6	9.5
28.....	11.6	4.8	7.1	24.6	20.1	7.9	2.7	26.1	5.8	2.3	1.6	9.0
29.....	11.0	.....	9.0	24.2	21.4	7.5	2.6	24.0	5.3	2.2	1.6	10.8
30.....	10.4	.....	12.5	23.1	22.3	8.0	2.5	20.6	5.0	2.2	1.6	14.0
31.....	9.9	.....	15.6	.....	22.7	.....	2.2	16.8	.....	2.0	.....	18.0
<b>Means.</b>	<b>12.6</b>	<b>10.5</b>	<b>9.0</b>	<b>19.4</b>	<b>11.4</b>	<b>9.5</b>	<b>4.3</b>	<b>12.9</b>	<b>8.7</b>	<b>3.6</b>	<b>1.8</b>	<b>9.7</b>

## OHIO RIVER SYSTEM—TENNESSEE RIVER, JOHNSONVILLE, TENN.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	20.9	24.6	15.0	35.0	7.5	5.2	3.8	1.7	0.5	3.1	0.6	6.4
2.....	22.6	26.4	18.3	35.6	7.0	4.8	3.8	1.8	0.8	3.5	0.6	7.1
3.....	23.7	27.4	20.7	35.6	6.9	4.1	3.2	2.2	1.1	3.5	0.5	8.1
4.....	24.6	27.5	22.0	34.6	6.9	3.9	3.9	2.7	1.4	3.3	0.4	8.6
5.....	25.4	27.0	23.4	33.2	8.1	3.8	6.9	2.6	1.5	3.0	0.4	9.6
6.....	26.2	26.8	24.6	32.2	9.4	3.5	7.8	2.1	1.5	2.9	0.4	10.7
7.....	27.0	26.5	25.8	31.4	9.6	3.0	7.0	1.6	1.4	2.8	0.4	11.8
8.....	27.8	26.2	27.1	30.2	8.8	3.0	6.4	1.4	1.2	2.7	0.6	11.9
9.....	28.5	25.2	28.3	28.0	7.7	2.9	5.7	1.3	0.9	2.5	0.6	10.9
10.....	28.5	23.0	29.2	24.7	6.9	2.9	4.9	1.4	0.7	2.2	0.6	9.8
11.....	27.0	19.2	29.8	20.9	6.2	2.8	4.1	1.5	0.6	2.0	0.5	8.8
12.....	22.6	15.2	30.4	17.5	5.8	2.6	3.6	1.5	0.5	1.8	0.5	7.9
13.....	16.4	12.3	a 30.8	15.0	5.6	2.5	3.2	1.5	0.5	1.7	0.5	7.3
14.....	11.8	10.2	30.8	13.2	5.5	2.5	2.9	1.2	0.5	1.8	0.5	6.8
15.....	9.3	9.2	30.0	11.6	4.9	2.5	2.7	1.1	0.4	2.2	0.9	8.0
16.....	8.0	8.8	28.2	10.6	4.9	2.4	2.5	1.2	0.4	2.5	1.0	17.0
17.....	7.2	8.7	25.3	10.0	4.8	2.3	2.3	1.4	0.4	2.7	1.0	19.6
18.....	6.1	8.4	22.0	9.3	4.6	2.3	2.6	1.4	0.5	2.5	0.9	19.9
19.....	6.3	8.0	19.7	8.9	4.6	2.3	3.2	1.3	0.7	2.3	0.8	15.5
20.....	6.6	7.8	18.5	8.7	4.3	2.2	3.6	1.1	0.8	2.2	0.8	14.7
21.....	6.7	7.5	17.9	8.2	4.3	2.2	3.0	1.0	0.9	2.4	0.7	12.6
22.....	7.5	7.0	17.6	7.9	4.2	2.2	3.0	0.8	0.8	2.4	0.7	12.5
23.....	8.5	7.9	17.1	7.5	4.1	2.3	2.5	0.7	0.7	2.2	0.6	13.4
24.....	9.6	8.2	16.2	7.3	3.9	2.8	2.3	0.6	0.6	2.0	0.7	14.5
25.....	9.8	8.9	14.7	7.0	3.8	3.3	2.0	0.6	0.6	1.8	1.0	13.4
26.....	10.0	9.9	13.0	6.8	3.8	3.3	1.9	0.5	0.8	1.5	2.3	13.4
27.....	12.3	11.3	12.0	6.4	3.8	3.1	1.6	0.5	1.2	1.4	4.4	12.4
28.....	14.3	13.0	12.0	6.1	3.8	3.0	1.5	0.6	1.4	1.1	5.5	11.9
29.....	16.7	.....	24.0	6.1	3.8	2.8	1.5	0.6	1.7	1.0	5.5	9.7
30.....	18.7	.....	30.4	8.1	3.7	3.3	1.4	0.6	2.0	0.9	5.8	9.7
31.....	21.8	.....	33.9	.....	3.6	.....	1.5	0.5	.....	0.7	.....	9.0
<b>Means.</b>	<b>16.5</b>	<b>15.8</b>	<b>22.9</b>	<b>17.3</b>	<b>5.6</b>	<b>3.0</b>	<b>3.4</b>	<b>1.3</b>	<b>0.9</b>	<b>2.2</b>	<b>1.3</b>	<b>11.4</b>
<b>1903</b>												
1.....	8.4	7.8	23.2	22.2	10.6	5.4	4.2	2.4	1.4	0.3	0.0	1.6
2.....	8.0	7.4	23.5	21.5	9.9	8.0	4.3	2.4	1.3	0.3	0.0	1.3
3.....	9.0	7.0	25.0	20.8	9.6	10.4	4.3	2.0	1.1	0.2	0.2	1.1
4.....	10.0	9.8	25.9	20.0	9.4	11.5	4.3	2.0	1.0	0.2	0.4	0.9
5.....	11.5	14.5	26.3	19.4	9.0	13.8	4.0	1.9	1.0	0.1	0.5	0.8
6.....	11.3	18.1	27.0	18.5	8.4	17.1	4.0	2.0	1.0	0.0	0.8	0.7
7.....	10.5	20.5	28.3	17.0	7.8	18.7	3.8	2.4	1.0	0.0	1.0	0.6
8.....	10.1	21.5	30.1	16.6	7.4	17.2	3.6	2.7	0.9	0.0	1.3	0.5
9.....	9.7	22.8	31.9	15.6	7.0	15.7	3.5	3.5	0.8	-0.2	1.3	0.5
10.....	9.5	24.2	32.9	16.2	6.7	14.2	3.5	3.8	0.7	0.0	1.4	0.4
11.....	9.5	25.2	33.7	18.2	6.5	13.3	3.6	4.0	0.6	0.2	1.2	0.4
12.....	9.4	25.8	33.5	20.0	6.2	13.1	3.7	3.9	0.6	0.4	1.1	0.4
13.....	10.5	26.3	33.1	21.3	6.0	12.3	3.7	3.7	0.5	0.4	0.9	0.4
14.....	11.0	26.8	32.7	22.8	5.9	11.5	4.6	3.5	0.5	0.4	0.9	0.4
15.....	10.7	27.0	32.3	23.2	6.4	10.7	5.0	3.4	0.4	0.3	0.8	0.4
16.....	10.8	28.1	31.8	25.6	8.8	9.5	4.7	3.1	0.4	0.3	0.7	0.4
17.....	9.9	28.4	31.3	26.5	10.4	8.6	4.6	3.0	0.4	0.3	0.7	0.4
18.....	9.5	28.4	30.5	26.9	9.8	7.7	4.9	3.0	0.3	0.5	0.8	0.4
19.....	8.7	28.8	29.0	26.8	8.5	6.8	5.1	3.1	0.3	0.6	1.3	0.4
20.....	8.0	29.1	26.7	26.5	7.4	6.1	5.0	3.4	0.3	0.6	2.3	0.9
21.....	7.4	29.2	23.7	25.9	7.1	5.5	4.9	3.6	0.3	0.5	2.7	2.3
22.....	6.9	29.1	20.7	25.0	6.7	4.9	4.7	3.6	0.3	0.4	2.3	4.3
23.....	6.5	29.1	18.4	23.5	6.1	4.7	4.5	3.3	0.3	0.3	3.3	5.5
24.....	6.0	29.1	16.6	21.5	5.6	4.7	3.9	3.1	0.3	0.2	4.3	4.4
25.....	5.8	29.0	15.3	19.4	5.1	4.5	3.7	2.9	0.3	0.2	4.3	4.0
26.....	5.5	28.7	14.5	17.5	4.7	4.5	3.5	2.7	0.3	0.1	3.7	4.4
27.....	5.3	27.2	15.6	15.9	4.3	4.5	3.2	2.5	0.3	0.0	3.2	4.8
28.....	5.5	25.0	18.0	14.3	4.2	4.7	3.0	2.3	0.3	0.0	2.7	4.7
29.....	6.6	.....	19.7	12.9	4.0	4.6	2.8	2.1	0.3	0.1	2.2	4.3
30.....	7.9	.....	21.0	11.6	4.1	4.4	2.6	1.8	0.3	0.1	2.9	3.8
31.....	8.1	.....	22.0	.....	4.8	.....	2.4	1.7	.....	0.0	.....	3.5
<b>Means.</b>	<b>8.6</b>	<b>23.4</b>	<b>25.6</b>	<b>20.4</b>	<b>7.0</b>	<b>9.3</b>	<b>4.0</b>	<b>2.9</b>	<b>0.6</b>	<b>0.2</b>	<b>1.6</b>	<b>1.9</b>

a 30.9 at 3 p. m.

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—TENNESSEE RIVER, JOHNSONVILLE, TENN.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	3.3	6.5	7.3	26.9	4.6	3.8	2.5	1.6	1.8	-0.1	-0.9	-0.1
2.....	3.4	5.7	7.0	25.8	4.5	3.9	2.3	1.6	1.8	-0.1	-0.9	0.0
3.....	3.5	5.0	7.3	24.4	4.2	4.5	2.2	1.6	1.7	-0.2	-0.9	0.1
4.....	3.6	4.4	8.2	22.3	4.8	5.5	2.2	1.7	1.6	-0.3	-0.9	0.2
5.....	3.4	4.1	8.3	19.4	5.5	6.0	2.8	2.0	1.5	-0.3	-0.8	0.4
6.....	3.2	3.7	7.8	17.1	6.4	6.1	3.0	1.9	1.2	-0.4	-0.7	0.5
7.....	2.7	3.5	7.6	15.1	6.5	5.8	3.2	1.8	1.2	-0.4	-0.6	1.0
8.....	2.5	3.3	7.4	13.5	6.0	5.3	3.4	1.9	1.1	-0.4	-0.5	1.6
9.....	2.2	3.2	7.9	12.3	5.9	5.1	3.8	2.0	1.0	-0.4	-0.5	2.8
10.....	2.0	3.4	8.9	11.5	5.8	5.2	4.0	2.2	0.8	-0.3	-0.5	3.5
11.....	1.9	3.5	9.5	11.1	5.7	4.9	3.9	2.5	0.8	-0.3	-0.5	4.1
12.....	1.8	3.7	10.7	10.8	5.7	4.3	3.5	2.9	0.7	-0.3	-0.5	4.5
13.....	1.7	4.7	11.8	10.3	5.7	3.8	3.1	3.2	1.0	-0.4	-0.5	4.8
14.....	1.6	5.3	12.8	9.9	6.0	3.3	2.7	3.6	1.1	-0.5	-0.5	4.6
15.....	1.6	5.5	13.2	9.8	6.4	3.1	2.7	3.8	1.0	-0.5	-0.5	4.0
16.....	1.5	5.3	13.5	8.1	6.5	2.9	2.7	3.7	0.8	-0.5	-0.5	3.6
17.....	1.7	5.0	13.4	7.4	6.1	2.7	2.7	3.4	0.7	-0.6	-0.4	2.9
18.....	1.9	4.5	13.2	6.7	5.8	2.5	2.7	3.4	0.5	-0.6	-0.3	2.5
19.....	2.2	4.2	12.6	6.1	5.2	2.2	2.8	3.3	0.4	-0.7	-0.3	2.2
20.....	2.4	4.0	11.5	5.6	4.9	2.1	2.8	3.0	0.3	-0.7	-0.3	1.9
21.....	2.5	3.7	10.2	5.3	4.6	2.1	2.5	2.9	0.3	-0.7	-0.3	1.8
22.....	3.4	3.6	9.5	5.2	4.3	2.2	2.4	3.0	0.2	-0.8	-0.4	1.6
23.....	6.3	3.9	11.2	5.2	3.9	2.1	2.2	2.9	0.1	-0.8	-0.3	1.5
24.....	8.0	3.9	15.0	5.1	3.7	1.9	2.2	2.6	0.2	-0.8	-0.2	1.6
25.....	8.9	4.0	17.7	5.0	3.5	1.7	2.0	2.4	0.3	-0.8	-0.1	1.8
26.....	9.3	4.8	20.6	6.0	3.4	1.7	1.8	2.1	0.2	-0.9	0.0	1.9
27.....	10.7	6.0	24.1	6.0	3.2	1.7	1.6	1.8	0.0	-0.9	0.0	4.0
28.....	10.9	7.0	26.5	5.6	3.3	1.8	1.4	1.7	0.0	-0.9	0.0	9.0
29.....	9.9	7.4	27.8	5.3	3.0	2.2	1.4	1.7	0.0	-0.9	0.0	11.2
30.....	8.7	.....	28.1	4.9	2.9	2.5	1.4	1.6	0.0	-0.9	0.0	12.1
31.....	7.5	.....	27.7	.....	3.7	.....	1.6	1.8	.....	-0.9	.....	11.7
Means.	4.0	4.6	13.5	10.9	4.9	3.4	2.6	2.4	0.7	-0.6	-0.4	3.3

## OHIO RIVER SYSTEM—OHIO RIVER, PITTSBURG, PA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	2.1	2.8	7.0	7.9	3.2	6.4	5.8	6.6	5.8	5.7	5.1	10.5
2.....	2.1	Frozen.	15.0	7.0	3.0	6.2	5.5	5.2	6.0	5.8	5.2	9.0
3.....	1.8	2.2	13.0	6.8	2.8	6.5	6.4	4.7	6.0	5.7	5.8	8.0
4.....	1.8	2.0	10.8	6.9	2.6	6.5	5.9	5.9	5.8	5.7	6.3	6.3
5.....	2.0	2.8	8.7	7.5	2.4	6.6	5.5	5.4	5.5	5.6	5.8	9.0
6.....	2.3	4.4	9.2	7.5	2.3	6.3	6.2	5.5	5.7	5.7	5.8	13.8
7.....	2.9	6.8	13.5	7.0	2.2	5.9	5.8	5.4	5.8	5.8	6.2	11.8
8.....	3.0	7.0	14.8	7.0	2.0	5.3	6.3	5.3	5.8	5.8	6.1	9.8
9.....	2.8	15.5	12.1	8.0	1.8	6.4	6.2	5.1	6.0	5.8	6.2	8.3
10.....	3.5	17.1	10.7	8.2	1.5	6.3	4.2	5.2	6.1	5.8	6.0	8.5
11.....	4.8	14.6	10.0	7.6	1.7	6.5	5.2	5.2	5.8	5.8	6.3	6.8
12.....	8.6	11.2	9.0	6.6	3.1	6.2	6.0	5.5	5.8	5.8	6.3	5.4
13.....	11.2	10.3	7.8	5.9	4.5	6.0	5.6	5.8	5.7	5.8	6.3	4.8
14.....	10.3	13.5	7.2	5.4	6.6	6.0	6.4	5.7	5.6	6.5	6.4	4.2
15.....	9.0	14.8	6.5	6.0	6.5	6.8	5.5	5.2	5.5	5.8	6.2	3.8
16.....	7.8	12.2	5.8	4.8	6.1	6.9	5.9	5.5	5.3	5.8	6.1	3.0
17.....	7.8	9.7	4.8	4.3	5.5	5.0	6.0	5.9	5.1	5.8	6.0	2.3
18.....	8.8	9.4	4.5	4.2	5.7	8.0	5.8	6.0	5.2	5.8	6.0	2.2
19.....	9.0	6.2	4.3	4.7	5.9	7.7	5.6	6.0	5.3	5.8	5.8	2.4
20.....	10.6	4.9	8.0	6.2	5.7	5.6	6.2	6.3	5.5	5.7	6.2	2.8
21.....	13.5	3.7	13.8	7.0	6.8	4.1	6.3	6.2	5.8	5.8	5.9	2.8
22.....	17.8	4.8	12.8	6.4	6.3	3.0	6.4	5.7	5.8	5.8	6.7	2.8
23.....	14.8	8.5	10.2	5.8	6.2	4.4	5.4	6.4	5.8	5.8	7.8	2.5
24.....	12.3	11.8	8.8	6.1	5.8	4.9	6.5	6.0	5.8	6.0	6.8	2.8
25.....	10.3	11.5	8.9	6.8	6.0	5.2	5.9	6.2	5.8	6.0	7.0	2.9
26.....	9.0	8.3	9.0	6.2	5.6	5.6	5.9	6.5	5.8	5.9	11.8	2.8
27.....	7.5	7.0	8.4	5.2	6.2	5.9	7.4	6.2	5.7	6.0	<sup>a</sup> 27.3	2.7
28.....	7.3	5.4	8.1	4.5	6.1	6.0	7.1	6.2	5.6	5.0	21.4	2.7
29.....	5.5	.....	7.4	4.0	6.0	5.2	6.4	5.6	5.6	6.0	15.3	2.5
30.....	4.3	.....	6.8	3.8	6.2	6.2	4.2	5.8	5.5	5.7	12.1	2.4
31.....	2.8	.....	6.8	.....	5.8	.....	7.5	6.0	.....	5.8	.....	2.8
Means.	7.0	8.5	9.2	6.2	4.6	5.9	6.0	5.7	5.7	6.0	8.1	5.2

<sup>a</sup>27.7 at 11 a. m.

## OHIO RIVER SYSTEM—OHIO RIVER, PITTSBURG, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	2.9	3.0	0.8	8.8	6.6	12.4	3.9	5.7	5.6	6.2	5.9	4.8
2.....	3.2	2.7	1.0	7.7	5.6	10.5	3.0	6.3	5.4	6.4	5.9	4.1
3.....	4.2	2.5	2.0	7.5	5.1	9.0	2.5	6.3	7.0	6.3	5.9	4.1
4.....	3.0	2.9	4.0	13.1	5.0	8.2	2.2	6.0	7.0	6.2	5.8	6.1
5.....	3.0	3.2	10.5	16.5	5.5	7.2	2.3	5.8	6.7	5.9	5.7	10.5
6.....	2.2	6.0	9.0	17.0	5.0	6.2	2.4	5.7	5.3	5.3	5.6	8.0
7.....	2.1	5.0	8.6	20.7	4.3	5.7	2.8	5.6	6.6	5.9	5.8	5.8
8.....	2.0	3.8	6.4	21.0	3.9	7.3	2.2	5.5	6.6	5.8	5.7	4.8
9.....	2.2	3.5	6.0	16.6	3.7	7.3	2.1	5.8	5.1	5.9	5.7	4.2
10.....	3.0	3.3	11.5	13.2	4.4	6.7	2.0	5.9	5.3	5.8	5.7	4.5
11.....	6.9	3.1	16.5	11.2	7.5	5.4	1.9	5.6	5.5	5.8	5.8	8.8
12.....	10.8	3.4	19.4	9.7	7.7	4.5	1.7	5.8	5.9	5.7	5.8	12.1
13.....	12.0	3.1	15.9	8.8	7.5	4.0	1.0	5.8	5.9	5.5	5.9	10.1
14.....	12.5	2.6	14.2	8.0	6.8	3.9	0.8	5.9	6.4	5.5	5.0	8.3
15.....	10.0	2.3	13.0	8.5	6.3	4.1	0.6	6.0	6.5	5.6	7.0	13.0
16.....	8.7	2.1	12.0	11.0	5.4	4.3	1.8	5.7	6.3	5.8	6.3	25.8
17.....	7.7	2.0	10.0	10.2	4.6	4.7	3.7	5.8	6.5	5.7	4.9	18.8
18.....	6.8	2.2	8.9	8.5	4.1	4.5	7.6	6.0	5.1	5.6	5.6	14.0
19.....	5.8	2.3	7.8	8.0	3.7	4.7	6.6	6.3	5.8	5.7	6.3	10.7
20.....	4.0	2.4	8.0	17.4	3.5	4.8	5.6	5.8	4.8	5.6	6.1	7.7
21.....	3.8	2.4	10.0	27.4	3.4	4.4	5.2	6.2	4.0	5.6	5.9	5.9
22.....	3.7	2.2	11.1	23.0	3.2	4.3	5.4	6.3	3.2	5.9	5.7	4.8
23.....	4.5	2.0	11.3	19.5	3.9	4.3	5.6	5.6	3.7	6.2	5.8	4.4
24.....	5.6	1.5	10.5	17.0	6.0	5.2	5.2	5.9	5.7	6.1	6.0	3.9
25.....	6.1	1.3	9.2	16.3	6.5	4.7	5.9	6.0	5.8	6.0	5.7	4.8
26.....	5.5	1.1	9.4	15.3	5.9	4.3	5.9	7.0	5.8	5.9	11.0	5.1
27.....	5.5	1.1	12.7	13.1	12.0	4.2	5.8	6.4	5.9	6.0	10.0	7.8
28.....	4.6	1.1	17.5	11.3	16.1	4.7	5.2	5.1	5.5	5.5	8.3	10.5
29.....	4.8	.....	15.1	9.2	17.3	4.3	5.2	5.4	5.9	5.6	6.7	11.0
30.....	3.7	.....	12.1	7.8	16.5	4.9	5.6	5.5	5.9	5.7	5.3	16.2
31.....	3.2	.....	10.5	.....	15.3	.....	6.3	6.2	.....	5.8	.....	16.3
Means.	5.3	2.6	10.2	13.4	6.8	5.7	3.8	5.9	5.7	5.8	6.2	9.0
<b>1902</b>												
1.....	11.8	8.6	29.3	8.8	3.7	5.4	11.0	6.8	5.7	5.6	6.2	3.8
2.....	8.5	7.5	30.3	8.7	5.0	5.6	15.0	6.7	5.7	5.3	6.4	3.4
3.....	6.7	7.7	25.0	8.2	5.1	5.8	10.8	5.8	5.8	5.9	6.3	5.4
4.....	5.8	7.6	19.9	7.7	5.0	5.8	15.1	5.1	5.8	6.7	6.2	6.0
5.....	4.5	5.6	15.0	8.2	4.6	6.0	15.3	4.6	5.7	6.0	6.0	6.7
6.....	3.5	4.1	12.3	9.0	4.3	6.0	11.2	3.8	5.5	6.5	6.0	6.0
7.....	3.1	3.6	9.9	9.4	5.1	6.3	9.3	3.6	5.5	6.4	5.8	5.5
8.....	3.5	3.5	8.7	12.6	4.8	6.2	8.4	4.9	5.9	5.8	5.7	4.9
9.....	3.7	2.9	9.0	15.8	4.6	6.2	8.8	5.7	5.7	6.4	5.7	4.8
10.....	3.6	2.8	14.3	20.6	4.3	5.9	9.2	6.0	5.8	6.4	5.8	4.8
11.....	3.3	2.5	15.0	19.8	3.9	5.5	14.2	5.8	5.8	6.2	5.9	3.8
12.....	3.0	2.4	13.4	18.8	3.3	6.2	11.3	6.1	5.9	7.0	5.9	9.5
13.....	2.5	2.3	14.0	17.7	4.3	6.0	8.6	6.4	5.9	8.5	5.8	16.9
14.....	1.6	2.3	17.0	14.8	5.5	6.3	6.9	6.1	5.8	5.9	5.6	17.5
15.....	1.2	2.1	16.3	11.7	6.0	6.4	5.4	5.6	5.9	4.6	5.8	13.2
16.....	1.4	2.1	13.5	9.7	5.4	6.3	4.3	5.5	5.8	3.7	5.8	10.0
17.....	1.8	2.0	12.3	8.4	6.4	6.0	3.5	5.5	5.5	4.4	5.9	17.2
18.....	1.8	2.0	13.5	7.6	6.0	6.5	4.2	5.5	5.4	6.3	5.8	16.0
19.....	1.8	2.0	11.8	6.9	5.6	6.3	6.3	6.0	5.5	5.8	5.9	11.9
20.....	2.0	1.9	9.7	6.2	6.6	5.2	7.0	6.0	5.8	5.8	5.9	9.1
21.....	2.0	1.9	8.2	5.6	6.5	6.0	7.2	6.0	5.8	4.9	6.0	7.7
22.....	2.0	1.9	7.2	5.2	6.5	5.7	8.5	5.9	5.9	5.6	6.1	8.6
23.....	1.8	2.0	7.0	4.8	6.5	6.3	9.1	5.8	5.8	6.1	6.5	13.6
24.....	1.7	2.9	5.9	4.5	6.2	6.5	8.7	5.7	5.9	5.9	5.7	12.9
25.....	2.5	5.3	5.3	4.2	6.2	6.0	7.6	5.6	5.7	5.8	5.6	10.7
26.....	2.5	6.9	5.0	3.8	6.4	6.4	8.5	6.2	5.8	5.6	6.1	8.7
27.....	3.3	12.0	4.5	3.2	7.0	6.3	8.2	6.1	6.0	5.7	9.4	6.9
28.....	15.5	13.1	4.3	3.1	7.8	6.2	6.5	5.9	6.0	5.5	7.7	5.7
29.....	12.8	.....	5.1	3.0	8.1	7.0	6.3	5.9	6.5	5.8	5.5	4.4
30.....	8.6	.....	6.9	3.2	6.9	6.2	6.2	5.8	6.3	5.8	4.5	4.4
31.....	7.2	.....	8.5	.....	5.8	.....	8.2	5.8	.....	6.0	.....	7.5
Means.	4.4	4.3	12.2	9.0	5.6	6.1	8.7	5.7	5.8	5.9	6.0	8.6

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—OHIO RIVER, PITTSBURG, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	6.5	16.3	a 27.5	6.8	3.0	5.2	8.3	6.3	7.2	5.8	6.0	3.9
2.....	4.9	13.2	25.5	6.7	2.8	5.5	6.4	5.8	5.7	5.9	6.1	3.7
3.....	4.8	13.6	17.5	6.0	3.1	4.6	4.7	6.2	4.6	5.9	5.9	4.6
4.....	15.3	17.3	13.0	5.6	4.5	6.3	3.7	5.4	3.6	5.9	5.9	4.5
5.....	15.4	23.5	10.7	9.0	5.7	6.2	4.4	5.6	3.0	6.3	5.9	1.6
6.....	12.3	21.4	9.5	9.8	6.3	5.8	6.8	5.5	5.4	5.8	5.7	3.0
7.....	9.5	15.7	9.5	8.6	6.3	5.9	8.5	6.0	4.9	5.7	6.1	3.4
8.....	7.9	12.0	10.9	7.5	6.0	5.8	6.0	5.7	5.9	6.2	6.3	3.7
9.....	6.8	10.4	16.7	10.5	5.4	7.7	4.3	6.3	5.8	6.8	6.4	4.0
10.....	4.9	8.9	20.0	12.8	5.5	7.0	3.3	6.2	6.5	7.1	6.3	3.5
11.....	4.9	7.3	17.3	10.1	5.9	5.3	2.9	5.9	6.2	5.9	6.3	4.7
12.....	3.8	7.1	16.8	8.2	5.6	6.3	2.9	5.9	6.2	4.7	6.2	4.5
13.....	6.6	9.4	15.0	10.6	5.7	6.4	3.2	5.4	6.0	3.8	6.2	4.3
14.....	5.8	10.3	12.7	10.6	5.9	6.8	5.0	5.8	6.4	3.2	6.1	4.5
15.....	4.5	9.8	10.3	11.0	5.5	6.4	5.3	5.5	6.0	6.0	6.0	4.0
16.....	4.3	12.9	9.0	11.5	5.3	7.1	4.2	5.9	5.9	5.9	6.0	4.3
17.....	4.4	21.3	7.7	13.4	5.9	5.9	5.0	5.8	5.6	5.8	6.7	5.3
18.....	4.4	15.0	6.9	11.9	5.8	4.6	4.9	5.8	6.5	6.0	11.6	5.7
19.....	4.3	9.7	6.4	9.9	5.9	5.2	5.8	5.5	5.7	6.4	10.7	5.5
20.....	3.7	6.5	5.7	8.3	5.9	5.7	5.5	5.6	6.4	6.4	8.5	5.6
21.....	3.2	5.6	5.4	7.0	5.9	5.5	6.8	5.6	6.2	6.4	6.9	2.3
22.....	3.7	5.7	6.0	6.0	5.9	6.9	7.0	6.3	6.0	6.0	5.5	4.2
23.....	4.4	5.0	8.4	5.2	6.3	6.7	5.7	6.2	5.5	5.8	4.8	5.0
24.....	4.3	5.1	15.3	4.8	6.1	9.9	4.7	6.0	6.0	5.4	4.2	4.5
25.....	4.0	5.2	17.5	4.2	6.1	9.7	3.9	5.9	5.7	6.1	3.7	4.5
26.....	3.3	5.2	13.2	4.0	6.8	7.1	3.4	6.2	6.0	6.2	3.5	5.3
27.....	3.2	4.9	10.0	3.9	5.5	5.4	6.3	6.0	6.2	6.0	6.3	6.4
28.....	4.3	7.9	8.2	3.8	7.3	4.6	6.2	7.3	6.0	6.0	5.4	5.5
29.....	7.6	.....	6.9	3.7	5.1	4.9	5.5	7.9	5.8	6.0	4.8	4.3
30.....	14.5	.....	5.9	3.3	5.0	8.8	5.8	4.7	5.8	5.8	4.2	3.3
31.....	20.8	.....	6.9	.....	4.8	.....	5.6	6.6	.....	5.7	.....	3.2
<b>Means.</b>	<b>6.7</b>	<b>10.9</b>	<b>12.0</b>	<b>7.8</b>	<b>5.5</b>	<b>6.3</b>	<b>5.2</b>	<b>6.0</b>	<b>5.8</b>	<b>5.8</b>	<b>6.1</b>	<b>4.3</b>
<b>1904</b>												
1.....	2.9	5.3	15.0	10.0	11.2	6.5	6.0	6.3	5.7	6.7	5.8	5.9
2.....	2.6	4.5	16.7	21.9	10.3	8.2	5.3	5.8	5.8	6.6	6.2	5.8
3.....	2.6	4.0	14.6	18.0	8.9	8.4	5.4	6.0	5.7	6.5	6.0	5.8
4.....	2.6	3.6	26.5	13.6	7.3	7.7	5.8	6.5	6.2	6.4	6.3	6.1
5.....	4.0	2.9	19.8	10.8	6.2	6.3	4.8	5.9	6.0	6.3	6.3	6.3
6.....	4.0	2.2	13.7	9.0	5.4	5.3	6.2	5.5	5.9	6.2	6.2	5.7
7.....	3.1	2.9	13.7	7.8	4.7	5.5	6.5	5.8	6.2	6.2	6.2	5.5
8.....	2.5	13.3	23.0	7.0	4.2	5.2	9.5	5.9	6.2	6.0	6.0	5.5
9.....	2.5	19.2	20.5	6.6	3.7	5.1	7.5	5.5	6.0	5.9	6.0	5.8
10.....	2.5	14.3	15.2	7.3	3.5	4.8	6.0	5.5	5.8	5.8	6.0	5.8
11.....	2.4	11.0	12.3	8.6	3.2	4.3	9.8	5.8	5.8	6.3	6.9	5.1
12.....	2.2	9.2	10.7	8.3	4.0	4.1	8.9	5.6	6.0	6.2	6.0	4.5
13.....	2.1	7.3	9.0	7.7	5.2	3.4	7.4	5.6	6.0	6.2	5.8	4.5
14.....	2.1	6.0	7.6	7.1	4.3	6.0	6.2	6.0	5.9	6.0	5.9	5.0
15.....	2.0	5.5	7.0	6.5	5.8	5.5	5.5	6.0	5.9	6.4	5.9	4.3
16.....	2.0	4.6	6.5	5.8	5.5	5.8	4.5	6.0	5.7	6.7	5.8	4.3
17.....	1.9	4.0	5.9	5.3	6.8	6.4	3.5	5.8	5.4	6.8	5.8	4.5
18.....	1.9	2.9	5.2	5.6	6.7	5.9	2.9	6.0	5.8	6.3	5.8	4.4
19.....	2.2	1.8	5.2	5.5	4.2	5.8	5.0	5.7	5.9	6.0	5.8	4.5
20.....	2.9	1.7	5.6	5.2	10.0	5.5	5.7	5.8	5.9	5.8	5.8	4.8
21.....	4.0	1.8	7.6	4.8	10.5	5.6	5.8	5.6	5.9	6.0	5.8	4.8
22.....	8.9	3.9	8.0	4.4	8.2	5.3	5.5	6.0	5.8	6.3	5.7	4.8
23.....	b 28.7	7.2	9.9	4.1	9.2	5.5	5.3	5.7	5.7	6.2	5.3	5.0
24.....	27.5	8.4	17.8	3.8	6.9	6.4	6.1	5.9	5.7	6.2	5.5	5.5
25.....	19.2	8.8	16.2	3.7	6.9	6.4	6.3	6.6	6.0	5.9	5.8	5.8
26.....	13.7	6.3	13.4	4.1	7.1	6.3	5.8	4.8	5.9	6.7	5.8	8.6
27.....	11.3	4.8	14.9	6.5	6.5	4.9	5.8	5.9	6.1	6.6	5.8	8.7
28.....	8.7	4.1	15.2	11.5	8.4	5.4	5.5	5.9	6.1	6.2	5.8	10.1
29.....	6.9	5.6	12.7	13.1	7.9	5.1	4.9	6.0	6.9	6.0	5.8	12.3
30.....	6.1	.....	10.5	12.0	6.2	5.0	5.9	5.5	6.9	6.3	5.8	9.7
31.....	5.7	.....	8.6	.....	5.4	.....	6.5	5.8	.....	6.3	.....	7.0
<b>Means.</b>	<b>6.2</b>	<b>6.1</b>	<b>12.5</b>	<b>8.2</b>	<b>6.6</b>	<b>5.7</b>	<b>6.0</b>	<b>5.8</b>	<b>6.0</b>	<b>6.3</b>	<b>5.9</b>	<b>6.0</b>

a Maximum stage 28.9.

b 30.0 from 3 to 7 p. m.



## OHIO RIVER SYSTEM—OHIO RIVER, DAVIS ISLAND DAM, PA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	4.0	4.5	8.4	9.0	5.3	4.7	4.8	5.5	3.0	1.2	2.6	11.1
2.....	4.0	4.5	14.5	8.4	5.1	4.5	4.2	4.5	2.6	1.3	2.2	9.8
3.....	3.6	4.1	13.1	8.0	4.9	4.5	4.6	3.8	2.6	1.4	2.2	8.8
4.....	3.8	4.1	10.9	8.3	4.6	4.6	4.2	3.2	2.5	1.4	2.6	7.9
5.....	3.8	4.7	9.5	8.7	4.5	4.7	3.5	3.0	2.3	1.4	2.8	9.7
6.....	4.2	6.0	9.6	8.7	4.3	4.5	4.2	2.8	2.0	1.4	2.7	13.6
7.....	4.7	8.2	13.2	8.3	4.1	4.4	3.8	2.6	2.0	1.4	2.5	12.0
8.....	4.7	8.2	14.4	8.3	4.0	4.1	5.1	2.4	2.0	1.4	2.5	10.4
9.....	4.9	15.1	12.0	9.1	3.8	3.8	5.7	2.2	2.0	1.5	2.6	9.0
10.....	5.0	16.2	11.0	9.2	3.5	3.9	5.0	2.0	2.0	1.4	2.7	8.5
11.....	6.6	14.0	10.5	8.7	3.4	4.1	4.4	1.8	2.0	1.6	2.8	8.3
12.....	9.6	11.8	9.8	8.0	4.4	3.9	4.0	1.7	1.8	1.8	2.9	7.3
13.....	11.5	10.7	9.0	7.5	4.4	3.8	4.9	1.7	1.8	1.8	3.2	6.8
14.....	10.6	13.0	8.5	7.2	4.8	3.7	5.2	1.7	1.8	2.1	3.1	6.1
15.....	9.6	14.3	8.0	7.0	5.0	5.6	4.3	1.7	1.8	2.3	3.2	5.8
16.....	8.9	12.1	7.5	6.8	4.8	5.9	3.7	1.6	1.6	2.1	3.3	5.4
17.....	8.7	10.1	6.9	6.5	4.2	5.0	3.4	1.9	1.4	2.0	3.1	4.7
18.....	9.6	9.0	6.2	6.3	3.9	8.0	3.3	2.0	1.3	2.0	3.0	4.1
19.....	9.7	7.9	6.3	6.5	3.7	8.4	3.1	2.0	1.1	1.9	3.0	4.3
20.....	10.8	6.7	9.0	8.0	3.9	7.1	3.2	2.4	1.1	2.0	3.2	4.7
21.....	13.3	5.8	13.4	8.4	4.5	5.9	3.6	2.6	1.1	2.0	3.7	4.7
22.....	16.9	6.7	12.7	7.9	4.6	4.9	3.3	2.8	1.2	2.0	6.6	4.7
23.....	14.5	9.5	10.8	7.6	4.6	4.0	3.2	3.2	1.2	1.9	7.5	4.6
24.....	12.2	11.9	9.5	7.8	4.4	3.6	3.9	3.0	1.3	2.2	8.1	4.6
25.....	10.7	11.1	9.5	8.0	3.9	3.5	3.7	3.0	1.4	2.9	8.0	4.6
26.....	9.6	9.3	9.7	7.8	3.8	3.1	3.9	3.6	1.2	3.2	11.5	4.6
27.....	9.0	8.1	9.5	7.0	3.5	3.4	6.0	3.5	1.2	3.6	a 25.2	4.6
28.....	8.0	7.3	9.5	6.5	3.5	3.4	6.5	3.3	1.2	3.1	21.1	5.0
29.....	7.3	.....	8.8	6.1	3.4	3.9	6.4	3.4	1.3	2.9	14.8	4.5
30.....	6.5	.....	8.3	5.7	3.6	4.3	4.7	3.3	1.3	2.9	12.1	4.4
31.....	5.2	.....	8.3	.....	3.4	.....	6.0	3.0	.....	2.8	.....	4.7
<b>Means.</b>	<b>8.1</b>	<b>9.1</b>	<b>9.9</b>	<b>7.7</b>	<b>4.2</b>	<b>4.6</b>	<b>4.4</b>	<b>2.7</b>	<b>1.7</b>	<b>2.0</b>	<b>5.8</b>	<b>6.8</b>
<b>1901</b>												
1.....	4.9	4.8	3.5	9.7	8.0	12.7	5.8	2.7	3.8	3.3	2.3	6.6
2.....	5.0	4.7	3.7	8.7	7.5	10.9	5.1	2.9	4.4	3.3	2.3	6.1
3.....	5.5	4.5	4.2	8.6	7.0	9.9	4.5	2.9	5.7	3.5	2.3	6.1
4.....	5.0	4.8	5.9	13.0	7.0	9.1	4.2	2.7	5.7	3.3	1.9	7.6
5.....	4.2	5.2	10.5	15.6	7.3	8.5	4.3	2.5	5.4	3.3	1.9	10.6
6.....	4.0	7.2	10.0	16.0	7.0	7.8	4.3	2.4	4.8	3.1	1.8	9.2
7.....	4.0	6.8	9.5	19.3	6.4	7.7	4.4	2.4	4.1	3.0	1.8	7.2
8.....	4.0	5.6	7.9	19.8	6.0	8.8	4.1	2.2	3.9	3.0	1.8	6.5
9.....	4.1	5.2	7.5	16.2	6.0	8.7	4.0	2.0	3.6	2.9	1.9	6.1
10.....	4.3	5.3	11.7	13.4	6.1	8.3	4.0	2.1	3.2	2.9	1.9	6.3
11.....	5.5	5.1	15.7	11.5	8.8	7.1	3.8	2.1	3.1	2.8	1.9	9.8
12.....	10.5	4.9	18.8	10.4	8.8	6.6	3.6	2.1	3.0	2.8	1.9	12.2
13.....	13.0	4.9	15.8	9.7	8.6	6.0	3.4	2.0	3.1	2.7	2.0	10.4
14.....	12.2	4.6	14.2	9.3	8.0	6.0	3.1	2.0	3.5	2.7	2.8	9.1
15.....	10.7	4.3	13.2	9.5	7.8	6.0	3.0	2.2	4.5	2.5	6.3	12.8
16.....	9.6	4.0	12.0	11.2	7.2	6.4	2.8	2.7	4.8	2.5	6.2	24.3
17.....	8.9	4.0	10.8	10.6	6.5	6.8	2.5	2.8	6.4	2.5	5.5	19.1
18.....	8.4	3.9	9.7	9.5	6.1	6.5	5.7	4.0	7.0	2.5	4.9	14.0
19.....	7.8	4.4	8.9	9.0	5.8	6.5	5.2	4.2	7.4	2.5	4.5	11.2
20.....	6.8	4.3	9.0	16.3	5.6	6.6	4.8	4.3	6.9	2.5	4.4	9.0
21.....	5.9	4.1	10.6	25.8	5.4	6.3	4.0	5.0	6.0	2.5	4.4	7.8
22.....	5.9	4.0	11.8	22.2	5.4	6.3	3.5	4.4	5.2	2.4	4.3	6.9
23.....	6.5	3.9	11.9	18.6	5.9	6.2	3.6	4.3	4.6	2.6	4.0	6.5
24.....	7.4	3.8	11.0	16.5	7.5	7.1	3.3	4.6	4.2	2.6	4.1	5.9
25.....	7.6	3.7	10.0	15.8	7.8	6.5	2.9	5.5	3.9	2.6	7.5	6.5
26.....	7.3	3.6	10.1	14.8	7.4	6.3	2.9	6.3	3.6	2.6	11.5	7.0
27.....	7.1	3.6	12.6	13.3	12.0	6.2	2.9	6.1	3.4	2.5	10.8	8.6
28.....	6.8	3.6	16.7	11.6	15.6	6.6	2.8	5.5	3.2	2.4	9.2	10.9
29.....	6.6	.....	14.8	10.0	16.6	6.0	2.6	4.9	3.0	2.3	8.2	11.4
30.....	5.8	.....	12.7	9.0	15.8	6.7	2.4	4.5	3.0	2.3	7.0	15.8
31.....	5.0	.....	11.0	.....	14.8	.....	3.0	4.7	.....	2.3	.....	15.7
<b>Means.</b>	<b>6.8</b>	<b>4.6</b>	<b>10.8</b>	<b>13.5</b>	<b>8.2</b>	<b>7.4</b>	<b>3.8</b>	<b>3.5</b>	<b>4.5</b>	<b>2.7</b>	<b>4.4</b>	<b>9.9</b>

a 25.6 at 11 a. m.

## OHIO RIVER SYSTEM—OHIO RIVER, DAVIS ISLAND DAM, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	11.8	9.6	27.0	9.7	5.6	5.2	11.5	8.3	2.4	2.8	3.0	5.8
2.....	9.4	8.5	29.0	9.6	6.0	4.7	15.1	8.2	2.4	2.7	3.0	5.4
3.....	8.0	8.5	24.4	9.3	5.8	4.2	11.3	7.6	2.4	2.7	3.0	5.8
4.....	7.3	8.3	19.0	9.0	6.0	3.9	14.6	7.0	2.4	4.5	3.0	7.4
5.....	6.4	7.5	15.2	9.3	6.8	3.7	15.2	6.7	2.5	4.4	2.9	7.9
6.....	5.4	5.9	12.6	9.8	6.4	3.7	12.0	6.1	2.3	4.5	2.9	7.6
7.....	4.9	5.5	10.5	10.2	7.2	3.9	10.2	5.6	2.2	4.4	2.9	7.2
8.....	5.5	5.6	9.8	12.6	6.8	3.9	9.5	5.4	2.3	4.1	2.8	6.8
9.....	5.5	5.0	10.1	15.2	6.6	3.8	9.8	5.2	2.1	4.0	2.8	6.5
10.....	5.6	4.6	14.2	19.4	6.4	3.7	10.2	4.7	2.2	4.4	2.7	6.5
11.....	5.2	4.2	15.0	18.6	5.9	3.5	14.0	4.6	2.2	4.2	2.7	5.8
12.....	5.0	4.2	13.6	17.8	5.4	3.5	11.8	4.6	2.2	6.0	2.8	9.6
13.....	4.5	4.1	14.0	17.1	5.1	3.5	10.0	4.7	2.2	9.2	2.8	15.8
14.....	3.8	4.0	16.4	14.4	4.9	3.6	8.4	4.6	2.2	7.7	2.7	16.8
15.....	3.3	4.0	15.8	11.9	4.6	3.7	7.4	4.2	2.2	6.6	2.6	13.1
16.....	3.7	4.0	13.4	10.5	4.0	3.6	6.5	3.9	2.2	5.7	2.6	10.6
17.....	3.7	4.0	12.6	9.5	4.4	3.6	5.7	3.5	2.1	5.2	2.6	16.1
18.....	3.8	3.9	13.7	8.9	4.2	5.3	5.1	3.4	2.1	5.3	2.6	15.6
19.....	4.0	4.0	12.2	8.4	4.0	5.2	4.8	3.0	1.9	4.9	2.6	12.1
20.....	4.0	3.8	10.6	7.8	4.1	4.8	6.1	3.0	1.7	4.6	2.6	10.0
21.....	3.9	3.8	9.3	7.5	4.4	4.4	7.0	3.1	1.8	4.0	2.8	9.1
22.....	3.9	3.6	8.5	7.2	4.5	4.3	9.6	3.1	1.8	3.6	2.8	9.6
23.....	3.9	4.0	8.2	6.9	4.6	4.1	9.9	3.0	1.8	3.5	3.0	13.8
24.....	3.8	5.2	7.8	6.6	4.4	4.6	9.7	2.9	1.8	3.5	2.9	13.0
25.....	4.5	6.8	7.4	6.4	4.3	4.3	8.8	2.7	1.8	3.3	2.9	11.5
26.....	4.5	8.2	7.1	5.9	4.5	5.0	9.6	2.7	1.8	3.1	3.8	9.9
27.....	5.3	12.0	6.7	5.7	5.0	4.9	9.5	2.6	1.9	3.0	9.6	8.4
28.....	14.3	13.2	6.6	5.3	7.1	5.4	8.2	2.6	2.1	3.0	8.4	7.4
29.....	12.5	.....	7.3	5.2	7.4	5.7	8.1	2.6	2.6	2.9	7.1	6.5
30.....	9.4	.....	8.1	5.3	6.8	6.0	7.9	2.6	2.6	2.9	6.5	6.6
31.....	8.3	.....	9.5	.....	6.0	.....	9.4	2.4	.....	2.9	.....	8.6
Means.	6.0	5.9	12.8	10.0	5.5	4.3	9.6	4.3	2.1	4.3	3.5	9.6
<b>1903</b>												
1.....	8.1	15.9	a 24.9	8.5	5.1	4.8	8.4	5.2	8.8	2.4	2.9	4.2
2.....	5.8	13.6	24.8	8.4	4.7	4.4	9.0	5.1	7.7	2.4	2.9	4.1
3.....	6.8	14.0	17.1	7.9	4.6	3.4	6.8	4.5	6.8	2.5	3.0	3.8
4.....	14.4	17.0	13.3	7.6	4.5	3.7	6.0	4.0	6.0	2.5	2.9	3.8
5.....	14.9	22.0	11.5	10.0	4.3	3.4	5.7	3.8	5.2	2.9	2.9	3.6
6.....	12.2	20.5	10.6	10.7	4.5	3.4	7.9	3.7	4.4	3.2	3.0	3.4
7.....	10.5	15.2	10.7	9.8	4.5	3.0	9.6	3.8	4.0	3.6	2.9	3.7
8.....	9.1	12.4	11.9	8.9	4.5	3.2	7.8	3.8	3.8	4.6	3.0	3.4
9.....	8.1	11.4	16.0	11.1	4.1	5.7	6.6	4.2	3.8	6.2	3.1	3.5
10.....	6.9	10.1	18.8	12.8	3.8	6.2	5.7	4.0	4.4	8.7	3.1	3.5
11.....	6.2	8.8	16.9	10.9	3.8	5.2	5.1	3.9	4.5	7.7	3.0	3.4
12.....	5.6	8.6	16.4	9.8	3.7	4.6	5.0	3.7	4.4	6.8	3.0	3.4
13.....	8.1	10.5	14.7	11.2	3.5	4.9	5.3	3.4	4.4	6.1	2.9	3.2
14.....	7.6	11.2	12.9	11.2	3.4	5.5	6.9	3.2	4.5	5.3	2.9	3.2
15.....	6.5	10.7	11.4	11.8	3.4	7.5	7.2	3.1	4.4	4.6	2.9	3.1
16.....	6.1	12.8	10.1	12.2	2.8	8.1	6.3	2.8	3.9	4.4	2.9	3.0
17.....	6.6	20.0	9.2	13.4	2.8	7.4	5.4	2.8	3.6	4.3	5.2	3.3
18.....	6.5	14.6	8.5	12.2	2.8	6.4	4.8	2.7	3.8	4.3	11.8	3.5
19.....	6.4	10.5	8.1	10.7	2.7	5.6	5.3	2.6	4.2	4.5	11.6	3.3
20.....	5.7	8.1	7.9	9.5	2.7	5.0	7.4	3.2	4.0	4.5	9.8	3.5
21.....	5.4	7.4	7.5	8.6	2.7	4.8	8.3	2.4	3.9	4.5	8.4	4.4
22.....	6.8	7.5	7.8	7.8	2.7	5.5	8.7	2.9	3.8	4.5	7.4	6.1
23.....	6.4	7.0	9.6	7.1	3.0	8.0	7.6	2.7	3.7	4.2	6.9	7.0
24.....	6.4	7.1	14.5	6.8	3.0	10.3	6.8	2.6	3.3	3.8	6.5	6.7
25.....	6.1	7.1	16.6	6.6	4.0	10.6	6.1	2.6	3.3	3.5	5.9	6.6
26.....	5.5	7.1	13.1	6.3	5.7	8.6	5.3	2.7	2.9	3.5	5.8	7.4
27.....	5.4	6.9	10.7	6.0	5.1	7.4	4.8	2.7	2.9	3.5	5.2	8.4
28.....	6.5	9.2	9.6	6.1	7.0	6.6	4.1	5.3	2.9	3.5	4.8	7.5
29.....	8.8	.....	8.5	5.8	6.8	7.0	4.0	9.3	2.8	3.5	4.5	6.4
30.....	14.0	.....	7.9	5.6	5.9	9.9	3.5	6.9	2.6	3.4	4.3	5.6
31.....	19.7	.....	8.7	.....	5.3	.....	3.5	8.2	.....	3.3	.....	5.3
Means.	8.2	11.7	12.6	9.2	4.1	6.0	6.3	3.9	4.3	4.3	4.8	4.6

a Maximum stage 26.5.

## OHIO RIVER SYSTEM—OHIO RIVER, DAVIS ISLAND DAM, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	4.9	7.4	14.8	11.1	11.8	8.3	5.1	3.5	2.9	3.1	3.4	1.9
2.....	4.6	6.7	16.4	21.2	11.1	9.6	5.4	3.2	3.0	3.2	3.1	1.9
3.....	4.7	6.2	14.6	17.4	9.8	9.8	5.3	3.4	2.6	3.1	3.0	1.9
4.....	4.9	5.2	24.8	13.9	8.7	9.2	5.1	3.7	2.8	3.1	2.8	2.2
5.....	6.1	5.0	19.1	11.7	8.0	8.3	4.8	3.3	2.7	3.1	2.8	2.5
6.....	6.4	4.2	13.9	10.2	7.5	7.4	5.1	2.9	2.6	3.1	2.7	1.8
7.....	5.1	5.1	13.7	9.3	7.0	7.7	5.7	2.8	2.7	3.0	2.6	1.7
8.....	4.7	13.1	21.5	8.7	6.6	7.4	10.7	2.8	2.8	3.0	2.5	1.7
9.....	4.6	18.4	19.5	8.4	6.1	7.2	9.0	2.6	2.7	2.8	2.5	1.7
10.....	4.5	14.2	15.1	8.8	5.8	7.0	8.0	2.5	2.5	2.7	2.5	1.8
11.....	4.4	12.0	12.8	9.9	5.5	6.6	10.7	2.5	2.4	2.8	2.5	1.6
12.....	4.2	10.4	11.4	9.7	5.4	6.3	10.2	2.5	2.5	2.8	2.5	1.5
13.....	4.3	9.0	10.3	9.2	5.1	5.7	9.0	2.4	2.5	2.8	2.4	1.6
14.....	4.2	8.0	9.0	8.8	4.7	5.4	8.0	2.5	2.4	2.9	2.4	1.6
15.....	4.1	7.6	8.5	8.3	4.8	4.6	7.6	2.5	2.4	3.3	2.4	1.6
16.....	4.1	6.9	8.1	7.9	5.2	4.4	6.8	2.6	2.3	3.5	2.3	1.6
17.....	4.0	6.3	7.8	7.4	5.9	4.8	5.8	2.5	2.1	3.6	2.2	1.6
18.....	4.0	5.1	7.3	7.6	5.7	4.5	5.2	3.1	2.0	3.3	2.2	1.6
19.....	4.4	3.9	7.1	7.5	6.3	4.1	4.6	2.3	2.1	2.9	2.1	1.6
20.....	5.0	4.0	7.5	7.2	10.5	4.0	4.1	2.6	2.1	2.7	2.1	1.7
21.....	6.0	4.1	9.0	6.9	11.4	3.9	4.0	2.5	2.2	2.8	2.1	1.6
22.....	9.9	5.8	9.3	6.6	10.2	5.0	3.8	2.5	2.0	2.7	2.1	1.6
23.....	a 27.0	8.0	10.8	6.4	9.4	5.0	3.7	3.0	1.9	2.7	2.1	1.6
24.....	26.7	9.6	16.9	6.1	8.4	5.3	3.9	3.3	1.9	2.7	1.9	1.8
25.....	18.6	9.7	15.6	6.0	8.6	5.2	4.1	3.8	2.0	2.6	2.0	2.4
26.....	14.3	7.9	13.5	6.2	8.8	4.6	3.8	3.8	1.9	4.5	1.9	9.7
27.....	12.0	6.9	14.8	8.0	8.4	4.0	3.5	3.3	2.1	4.4	1.9	9.4
28.....	10.1	6.3	15.0	11.9	9.6	3.7	3.4	3.3	2.1	4.1	1.9	10.7
29.....	8.6	7.6	13.1	13.2	9.3	5.2	3.6	3.4	3.3	3.7	1.9	12.3
30.....	8.0	.....	11.1	12.2	8.2	4.2	3.3	3.2	3.6	3.6	1.9	10.6
31.....	7.7	.....	9.9	.....	7.7	.....	3.4	2.9	.....	3.6	.....	8.5
Means.	7.8	7.7	13.0	9.6	7.8	5.9	5.7	2.9	2.4	3.2	2.4	3.4

## OHIO RIVER SYSTEM—OHIO RIVER, BEAVER DAM, PA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	5.3	6.6	9.9	11.4	6.4	6.6	5.9	7.1	3.3	1.4	3.0	15.7
2.....	5.2	5.2	19.9	10.9	6.2	6.5	5.0	5.8	2.9	1.4	2.5	13.6
3.....	5.0	5.4	19.6	10.3	5.9	6.5	5.0	4.6	2.9	1.5	2.5	12.3
4.....	5.0	5.6	15.9	10.1	5.6	6.3	5.3	3.6	2.7	1.5	2.5	10.5
5.....	5.2	5.9	13.1	10.8	5.5	6.2	4.4	3.6	2.6	1.5	3.2	11.6
6.....	5.4	7.0	13.1	11.2	5.3	5.9	5.0	3.3	2.3	1.5	3.2	18.6
7.....	5.7	10.5	20.1	10.7	5.0	5.5	5.8	3.0	2.3	1.6	2.9	17.1
8.....	5.8	10.4	23.9	10.6	5.0	5.3	6.3	2.7	2.3	1.6	2.8	14.4
9.....	6.1	20.7	19.2	11.3	4.8	4.9	7.5	2.5	2.2	1.5	2.9	12.5
10.....	6.3	25.0	16.6	11.9	4.5	4.9	6.5	2.2	2.3	1.5	3.0	11.7
11.....	8.6	21.9	14.7	11.4	4.2	4.9	5.5	2.0	2.3	1.6	3.0	10.6
12.....	10.6	17.3	13.5	10.6	4.9	5.0	8.5	1.9	2.2	2.1	3.3	9.4
13.....	15.0	15.2	12.3	9.5	5.1	4.7	8.0	1.9	2.0	2.1	3.4	8.4
14.....	15.9	18.1	11.4	9.2	5.6	4.3	7.4	1.9	2.0	2.4	3.7	8.3
15.....	13.4	21.1	10.7	8.8	6.3	5.9	6.4	2.0	1.9	2.7	3.7	7.5
16.....	12.1	17.9	9.6	8.3	6.0	7.5	5.2	2.0	1.8	2.4	3.8	6.7
17.....	12.0	14.3	8.8	8.0	5.4	6.5	4.1	1.9	1.6	2.3	3.7	5.7
18.....	12.7	12.0	8.0	7.8	4.9	8.6	4.2	2.2	1.6	2.3	3.5	5.4
19.....	12.9	10.2	7.7	7.9	4.7	10.7	3.8	2.2	1.4	2.3	3.5	4.8
20.....	14.3	8.7	11.3	9.1	4.7	8.0	3.8	2.2	1.3	2.3	3.6	5.5
21.....	17.9	7.6	18.0	10.6	4.8	7.5	4.2	3.1	1.3	2.2	4.4	5.9
22.....	24.2	8.0	18.6	10.2	5.8	6.2	4.4	3.2	1.3	2.2	7.2	5.5
23.....	21.9	10.7	15.1	9.0	5.6	4.9	3.9	3.6	1.3	2.2	9.1	6.0
24.....	17.6	16.9	13.0	9.5	5.5	4.1	3.8	3.5	1.4	2.4	9.8	5.8
25.....	14.8	16.7	12.0	10.1	4.6	4.1	4.8	3.4	1.4	2.4	9.8	5.8
26.....	13.1	13.3	12.4	9.9	4.6	3.7	5.8	4.2	1.4	3.8	13.1	5.5
27.....	12.0	11.0	12.7	8.9	4.0	3.8	7.6	4.5	1.4	4.1	32.3	5.6
28.....	10.6	9.2	12.3	8.3	4.1	4.0	8.3	3.8	1.4	3.6	31.8	6.9
29.....	9.3	.....	11.5	7.6	4.1	4.8	8.3	4.0	1.3	3.1	22.1	5.8
30.....	8.7	.....	10.6	7.2	4.2	5.2	6.9	3.9	1.4	3.3	17.7	5.5
31.....	7.5	.....	10.3	.....	4.2	.....	6.2	3.5	.....	3.2	.....	5.5
Means.	11.0	12.6	13.7	9.7	5.1	5.8	5.7	3.2	1.9	2.3	7.4	8.8

a 28.4 at 1 p. m.

## OHIO RIVER SYSTEM—OHIO RIVER, BEAVER DAM, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	5.9	6.6	5.0	13.5	11.0	18.2	7.5	3.3	5.7	4.6	2.3	8.4
2.....	6.0	6.1	4.7	11.8	9.9	15.8	6.7	3.0	6.0	4.6	2.3	8.0
3.....	6.7	5.7	5.9	11.1	9.2	13.6	5.8	3.4	7.1	4.8	2.3	8.1
4.....	6.6	5.6	7.7	18.0	8.9	12.6	6.1	3.0	7.9	4.5	2.3	8.8
5.....	5.9	6.5	13.8	24.1	9.1	11.6	5.5	3.0	7.2	3.9	2.3	13.7
6.....	4.8	8.4	14.7	24.6	8.9	10.2	5.5	2.7	6.4	3.8	2.2	12.3
7.....	4.7	8.7	13.7	28.6	8.2	9.6	5.9	2.7	5.0	3.6	2.2	9.8
8.....	4.9	7.4	11.1	31.0	7.5	11.5	5.5	2.5	4.9	3.5	2.2	8.9
9.....	4.9	7.1	10.2	26.6	7.5	11.7	5.0	2.3	4.5	3.3	2.2	7.7
10.....	5.3	6.5	16.5	19.7	7.5	10.9	5.0	2.3	3.9	3.3	2.2	8.4
11.....	6.9	6.5	24.7	16.4	10.7	9.4	4.8	2.4	3.7	3.2	2.2	11.9
12.....	14.7	6.3	29.0	14.4	12.0	9.0	4.5	2.4	3.6	3.0	2.2	17.2
13.....	17.6	6.4	26.1	13.2	11.6	7.8	4.2	2.3	4.3	2.9	2.5	15.0
14.....	17.6	6.0	22.5	12.2	10.9	7.6	3.9	2.3	5.0	2.9	3.8	12.9
15.....	15.1	5.4	20.0	12.3	10.1	8.5	3.5	2.4	5.4	2.8	8.0	18.4
16.....	13.0	5.4	18.1	14.5	9.3	8.1	3.1	3.4	7.9	2.8	7.8	33.4
17.....	12.2	5.4	15.8	14.7	8.4	8.5	3.0	3.4	9.1	2.8	7.0	31.7
18.....	11.3	5.2	13.8	12.8	7.7	8.2	4.4	3.7	9.9	2.7	6.0	21.9
19.....	10.1	5.5	12.4	12.1	7.2	7.6	7.0	6.7	9.4	2.7	5.6	16.2
20.....	9.1	5.3	11.9	23.3	7.1	8.3	6.1	6.7	9.1	2.7	5.6	12.6
21.....	7.9	5.5	14.1	37.7	6.9	8.3	5.6	7.7	8.0	2.7	5.6	10.2
22.....	7.0	5.5	16.1	34.4	6.7	8.8	4.6	6.1	7.0	2.9	5.4	9.4
23.....	8.0	5.3	16.8	29.6	7.9	9.1	4.3	5.9	6.1	3.0	5.1	8.2
24.....	8.9	5.1	15.2	26.1	8.7	9.2	4.0	6.5	5.1	3.0	5.1	7.5
25.....	9.6	5.1	13.8	25.9	10.4	8.8	3.2	7.8	4.9	2.8	9.1	8.2
26.....	9.4	5.5	13.8	24.5	9.7	8.0	3.3	8.4	4.4	2.7	14.9	9.0
27.....	9.2	5.1	17.8	22.2	13.5	8.5	3.3	8.1	3.9	2.7	14.9	10.7
28.....	8.8	6.8	23.6	18.0	21.6	7.6	3.2	7.2	3.9	2.6	12.8	14.3
29.....	8.3	.....	22.0	14.6	23.6	8.4	2.9	6.2	3.8	2.5	10.9	15.6
30.....	7.4	.....	19.1	12.4	23.3	8.7	2.6	5.6	4.8	2.4	9.3	21.4
31.....	6.7	.....	15.7	.....	21.5	.....	2.3	5.9	.....	2.3	.....	22.2
<b>Means.</b>	<b>8.9</b>	<b>6.1</b>	<b>15.7</b>	<b>20.0</b>	<b>10.9</b>	<b>9.8</b>	<b>4.6</b>	<b>4.5</b>	<b>5.9</b>	<b>3.2</b>	<b>5.5</b>	<b>13.6</b>
<b>1902</b>												
1.....	17.9	.....	35.9	13.5	7.0	6.7	15.7	11.7	2.7	3.6	3.4	7.5
2.....	13.5	.....	43.0	13.8	7.4	6.0	21.1	11.1	2.6	3.5	3.6	7.0
3.....	11.1	.....	37.9	13.2	7.6	5.3	16.8	9.9	2.7	3.3	3.7	6.9
4.....	9.8	.....	29.9	12.8	7.6	5.0	18.7	8.9	2.8	4.4	3.7	8.9
5.....	.....	8.2	23.5	12.8	8.5	4.6	23.9	8.6	2.7	5.6	3.5	10.3
6.....	7.4	8.0	18.6	13.8	7.9	4.5	18.4	7.8	2.6	5.8	3.4	9.8
7.....	6.7	6.9	15.3	14.3	8.9	4.7	15.2	7.3	2.5	6.0	3.2	9.2
8.....	6.2	6.7	13.5	17.5	8.5	5.0	13.3	6.6	2.6	5.5	3.2	8.6
9.....	7.2	6.6	13.8	22.4	8.1	4.9	13.4	6.4	2.5	5.0	3.1	8.3
10.....	7.1	6.0	18.9	29.9	7.6	4.6	14.7	5.9	2.5	5.5	3.1	8.1
11.....	6.9	5.7	23.3	28.4	7.1	4.3	20.7	5.9	2.5	5.2	3.1	7.3
12.....	6.6	5.7	20.0	27.2	6.8	4.3	18.4	5.8	2.5	10.9	3.1	10.5
13.....	6.2	5.5	21.4	25.2	6.2	4.3	14.5	6.1	2.5	10.9	3.1	22.2
14.....	5.1	5.5	23.4	21.1	5.9	4.4	11.8	5.8	2.5	10.0	3.0	23.5
15.....	4.8	5.2	23.9	17.6	5.7	4.8	9.8	5.4	2.5	8.4	2.9	19.9
16.....	4.6	5.2	19.2	14.8	5.1	4.8	8.6	4.8	2.5	7.3	2.9	15.4
17.....	5.1	4.9	17.6	12.9	5.5	4.9	7.6	4.3	2.4	5.4	3.0	22.4
18.....	4.9	4.8	19.3	11.9	5.4	6.0	6.5	4.1	2.3	6.5	3.0	24.2
19.....	5.1	4.8	17.3	11.3	5.2	6.8	6.1	3.6	2.1	6.4	3.2	18.7
20.....	5.1	4.8	14.8	10.4	5.1	6.4	7.9	3.8	1.9	5.8	3.5	14.6
21.....	5.0	4.6	12.7	9.8	5.4	5.7	9.4	3.8	1.9	5.1	3.5	12.8
22.....	4.7	4.6	11.3	9.1	6.0	5.5	12.0	3.8	2.0	4.4	3.7	13.4
23.....	4.7	4.9	10.8	8.6	5.9	5.1	13.3	3.6	2.0	4.3	3.9	19.1
24.....	4.7	5.5	10.1	8.3	5.7	5.7	13.6	3.5	2.0	4.3	3.7	18.6
25.....	5.4	8.0	9.4	7.9	5.5	5.5	12.0	3.3	2.1	4.0	3.6	16.3
26.....	.....	19.8	8.7	7.6	5.8	6.4	12.2	3.0	2.1	3.7	3.8	13.6
27.....	6.0	15.8	8.3	7.0	6.4	6.9	12.7	3.2	2.5	3.7	11.2	11.4
28.....	17.3	18.8	8.0	6.5	8.8	7.4	11.1	3.0	2.7	3.6	11.5	9.5
29.....	18.6	.....	9.7	6.4	9.8	7.6	10.5	3.0	2.9	3.3	9.5	8.9
30.....	13.4	.....	11.2	6.4	8.7	8.9	10.5	2.9	3.3	3.3	8.2	8.3
31.....	11.3	.....	13.5	.....	7.7	.....	13.1	2.7	.....	3.3	.....	10.0
<b>Means.</b>	<b>8.0</b>	<b>7.4</b>	<b>18.2</b>	<b>14.1</b>	<b>6.9</b>	<b>5.6</b>	<b>13.3</b>	<b>5.5</b>	<b>2.4</b>	<b>5.4</b>	<b>4.2</b>	<b>13.1</b>

## OHIO RIVER SYSTEM—OHIO RIVER, BEAVER DAM, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	12.8	24.3	<sup>a</sup> 35.2	11.2	6.5	6.3	13.2	7.2	12.9	2.9	3.5	5.0
2.....	8.6	20.4	38.1	11.0	6.2	5.3	11.0	6.7	11.3	2.7	3.4	4.7
3.....	8.6	19.7	29.0	10.4	6.0	4.6	9.0	5.5	9.8	2.8	3.5	4.4
4.....	20.3	25.1	20.4	10.6	4.9	4.1	7.6	5.5	8.3	2.7	3.4	4.8
5.....	23.1	31.7	16.5	13.9	5.3	4.2	7.3	4.8	7.1	3.0	3.5	4.8
6.....	15.9	31.7	15.2	15.9	5.5	4.1	8.7	4.5	5.4	3.8	3.7	3.5
7.....	15.2	24.4	14.8	14.2	5.7	3.7	13.3	4.6	5.2	4.3	3.1	4.2
8.....	13.0	18.7	17.4	12.4	5.5	4.0	10.4	4.7	4.8	5.5	3.5	4.0
9.....	11.3	16.2	23.9	14.2	5.2	5.8	8.5	5.3	5.1	7.5	3.3	4.1
10.....	9.6	14.3	29.2	18.0	4.6	8.1	7.0	5.0	5.9	11.1	3.7	4.0
11.....	8.5	12.1	28.4	15.5	4.6	7.0	6.5	4.7	6.0	10.4	3.7	3.9
12.....	7.9	12.1	26.2	13.1	4.3	5.4	6.2	4.4	6.0	9.2	3.6	4.0
13.....	9.4	14.4	23.1	16.2	4.3	5.7	6.1	4.2	6.1	7.9	3.5	3.6
14.....	10.5	15.5	19.3	17.5	4.1	6.3	7.8	3.9	6.1	7.0	3.4	4.1
15.....	9.2	15.0	16.5	17.2	4.0	9.4	9.2	3.7	5.6	5.5	3.3	5.6
16.....	8.1	17.1	14.4	17.4	3.5	10.3	8.0	3.2	5.1	5.6	3.5	6.5
17.....	8.4	28.4	12.5	18.8	3.3	9.7	6.4	3.2	4.7	5.2	6.3	6.3
18.....	8.5	22.5	11.9	17.8	3.2	8.2	6.0	3.1	4.1	5.3	14.4	6.8
19.....	8.4	15.5	11.2	15.2	3.1	6.9	6.9	3.0	5.2	5.4	16.5	6.4
20.....	7.8	11.4	10.5	13.1	3.1	6.2	9.6	3.6	5.0	5.6	13.5	6.5
21.....	7.1	10.0	10.0	11.5	3.2	6.0	11.1	3.7	4.8	5.6	11.3	6.5
22.....	7.3	9.7	10.6	10.4	3.2	6.3	12.0	3.5	4.8	5.5	9.9	7.0
23.....	8.0	9.3	12.8	9.4	3.8	10.2	10.4	3.2	4.5	5.4	8.7	9.0
24.....	8.3	9.1	18.3	8.6	4.0	13.0	9.2	3.0	4.0	4.8	8.0	8.5
25.....	8.2	9.3	24.7	8.1	5.1	15.3	8.1	2.9	3.8	4.3	7.5	8.4
26.....	7.0	9.3	19.5	7.8	6.3	11.8	7.2	2.9	3.3	4.2	7.1	8.4
27.....	6.9	9.1	15.5	7.5	7.0	9.8	5.8	3.2	3.4	4.0	6.2	10.5
28.....	8.1	14.1	13.0	7.4	6.6	8.6	5.0	9.0	3.3	4.1	6.2	9.2
29.....	11.7	.....	11.5	7.3	8.8	8.5	4.9	13.7	3.3	4.1	5.8	8.2
30.....	21.0	.....	10.4	7.0	6.9	11.8	4.2	11.4	3.0	3.9	5.4	7.4
31.....	29.3	.....	11.4	.....	6.6	.....	4.8	11.4	.....	3.8	.....	6.9
Means.	11.3	16.8	18.4	12.6	5.0	7.6	8.1	5.1	5.6	5.3	6.1	6.0
<b>1904</b>												
1.....	6.6	9.8	21.8	17.5	17.5	12.0	6.5	4.2	3.3	4.0	4.0	2.3
2.....	6.0	9.7	26.0	33.0	16.1	17.0	7.3	4.0	3.4	3.5	3.7	2.3
3.....	5.9	8.2	25.5	29.0	14.2	16.5	6.7	4.0	2.8	3.6	3.4	2.3
4.....	6.1	7.2	37.0	23.0	12.2	15.0	6.7	4.5	3.0	3.6	3.2	2.4
5.....	6.4	6.8	31.5	17.8	10.8	12.4	6.2	3.9	3.0	3.6	3.0	2.5
6.....	7.9	5.8	21.8	14.7	9.8	10.5	6.3	3.7	2.9	2.9	3.2	2.8
7.....	8.0	6.6	19.3	13.0	9.1	10.2	7.8	3.3	2.9	3.3	3.1	2.2
8.....	7.0	16.2	30.8	12.0	8.3	9.6	14.5	3.2	3.2	3.2	2.7	2.5
9.....	5.3	27.4	30.2	11.4	7.8	9.2	13.1	3.0	3.2	3.2	2.8	2.1
10.....	5.3	22.2	23.3	11.9	7.4	8.9	10.7	2.8	2.9	3.0	2.8	2.1
11.....	5.7	17.5	18.9	13.4	7.0	8.3	14.4	2.8	2.8	2.9	2.7	2.7
12.....	5.8	14.4	16.5	13.4	6.5	8.0	14.1	2.8	2.7	3.0	2.7	2.6
13.....	5.5	12.5	14.5	12.5	6.0	7.3	12.6	2.8	2.9	3.0	2.7	2.3
14.....	5.5	10.7	12.5	11.9	6.3	6.0	10.8	2.9	2.8	3.0	2.7	2.4
15.....	5.5	9.7	11.7	11.1	6.0	5.5	10.0	2.9	2.7	3.2	2.7	2.5
16.....	5.4	9.0	10.9	10.4	6.5	5.3	8.7	3.0	2.5	4.1	2.7	2.4
17.....	5.4	8.5	10.2	9.8	7.0	5.8	7.7	2.9	2.5	4.1	2.7	2.5
18.....	5.3	6.6	9.4	9.8	7.3	5.7	6.7	1.7	1.8	3.9	2.6	2.5
19.....	8.8	5.3	9.9	9.7	8.7	5.1	5.4	3.4	2.4	3.5	2.6	2.7
20.....	10.5	4.0	10.8	9.4	12.0	4.8	4.7	2.9	2.3	3.2	2.4	2.7
21.....	10.1	4.9	12.1	8.7	16.0	4.8	4.8	3.0	2.3	3.0	2.4	2.7
22.....	17.7	6.9	12.9	8.3	13.9	6.3	4.4	3.0	2.2	3.0	2.4	2.7
23.....	<sup>b</sup> 39.7	9.5	14.5	7.9	12.8	6.2	4.4	3.6	2.2	3.0	2.3	2.7
24.....	41.6	12.8	23.1	7.6	11.4	6.7	4.6	3.7	2.1	3.0	2.2	2.8
25.....	32.4	12.7	23.0	7.5	11.4	6.6	5.0	4.4	2.1	3.0	2.2	3.8
26.....	22.6	10.9	20.0	7.9	12.0	5.7	4.5	5.5	2.0	5.0	2.2	10.0
27.....	17.5	9.0	22.0	9.7	12.3	5.4	4.1	4.4	2.0	5.4	2.2	12.6
28.....	14.4	8.0	23.6	15.9	14.0	4.5	4.1	4.4	2.0	5.0	2.3	14.5
29.....	11.8	10.2	20.2	18.8	13.9	8.0	4.3	4.2	3.0	4.3	2.4	17.2
30.....	10.8	.....	16.5	18.0	11.5	5.7	3.9	4.0	4.5	4.3	2.3	15.7
31.....	10.4	.....	14.0	.....	10.3	.....	4.0	3.3	.....	4.2	.....	12.3
Means.	11.5	10.4	19.2	13.5	10.5	8.1	7.4	3.5	2.7	3.6	2.7	4.7

<sup>a</sup> Maximum stage, 38.1.<sup>b</sup> 42.8 at 11 p. m.

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—OHIO RIVER, WHEELING, W. VA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	7.7	7.7	10.6	10.5	6.6	3.9	4.5	6.3	3.0	0.4	2.4	16.3
2.....	Frozen.	7.0	14.1	10.9	6.1	6.1	5.5	6.5	2.9	0.3	2.2	14.3
3.....		5.0	21.2	10.2	5.9	6.3	4.6	5.3	2.4	0.3	2.1	12.9
4.....		4.9	19.0	9.5	5.5	5.9	4.8	4.3	2.2	0.4	1.6	10.5
5.....		5.2	15.0	10.0	5.3	5.9	4.8	3.3	2.0	0.5	1.6	9.9
6.....	9.2	5.3	13.7	10.5	5.0	5.7	4.0	3.0	1.9	0.6	1.7	14.0
7.....	9.7	7.0	18.0	10.4	4.9	5.5	5.0	2.9	1.7	0.6	2.3	18.0
8.....	9.9	10.2	24.9	9.9	4.7	5.2	5.5	2.4	1.4	0.7	2.0	15.9
9.....	10.0	14.0	22.6	10.0	4.6	5.1	6.0	2.1	1.4	0.6	1.9	13.6
10.....	10.3	25.0	19.3	10.9	4.6	5.0	6.7	2.0	1.4	0.6	1.9	11.6
11.....	11.9	24.3	15.6	11.0	4.0	4.6	5.9	1.8	1.3	0.6	2.0	10.3
12.....	10.0	20.0	14.3	10.3	3.9	4.5	5.0	1.4	1.3	0.6	2.0	10.0
13.....	13.6	17.0	13.0	9.3	4.9	4.5	8.3	1.3	1.3	0.9	2.1	8.0
14.....	16.9	17.2	11.3	8.9	4.5	4.3	7.4	1.2	1.2	1.0	2.6	7.3
15.....	15.6	20.8	10.8	8.3	5.0	3.9	6.5	2.2	1.1	1.0	2.6	6.9
16.....	12.6	20.0	9.6	7.9	5.9	5.7	5.6	1.6	1.0	1.6	2.9	6.5
17.....	11.8	14.0	9.0	7.4	5.4	6.9	4.8	1.8	0.9	1.5	2.9	6.3
18.....	12.3	12.9	8.0	7.4	4.9	5.9	3.8	1.6	0.7	1.3	2.9	5.5
19.....	12.9	10.9	7.7	7.3	4.6	9.5	2.7	1.7	0.6	1.5	2.9	5.7
20.....	13.6	8.3	9.0	7.7	5.0	9.3	4.1	1.7	0.6	1.3	2.7	4.9
21.....	16.0	8.1	14.3	9.3	4.3	7.9	3.6	1.8	0.5	1.3	2.9	5.2
22.....	21.3	7.3	19.0	9.9	4.6	6.6	3.8	2.6	0.4	1.3	3.6	5.5
23.....	23.3	8.2	17.3	9.5	5.6	5.6	3.8	2.7	0.3	1.2	7.0	5.5
24.....	20.1	12.2	13.9	9.3	5.3	4.5	3.5	2.8	0.3	1.2	9.0	5.5
25.....	16.5	15.9	12.5	9.4	4.9	3.9	3.5	3.1	0.3	1.3	9.9	5.4
26.....	13.9	15.0	12.0	9.2	4.3	3.7	4.5	2.8	0.3	1.5	10.3	5.4
27.....	12.5	11.6	12.3	8.3	4.0	3.3	5.3	3.3	0.4	2.5	19.3	5.4
28.....	10.9	9.8	12.1	8.0	3.6	3.3	7.3	4.0	0.3	3.2	34.3	5.2
29.....	9.3		11.0	7.3	3.6	3.8	7.5	3.5	0.3	3.0	28.2	5.6
30.....	8.5		10.7	7.0	3.8	4.0	7.2	3.6	0.4	2.4	21.0	5.2
31.....	8.1		9.8		3.9		6.0	3.4		2.4		5.0
<b>Means.</b>	<b>12.9</b>	<b>12.3</b>	<b>13.9</b>	<b>9.2</b>	<b>4.8</b>	<b>5.3</b>	<b>5.2</b>	<b>2.8</b>	<b>1.1</b>	<b>1.2</b>	<b>6.4</b>	<b>8.6</b>
<b>1901</b>												
1.....	5.4	6.2	6.3	14.5	11.8	20.5	7.9	2.2	5.8	4.4	1.8	8.2
2.....	5.4	5.9	6.5	12.8	10.3	16.9	6.9	2.9	5.5	4.3	1.7	7.6
3.....	5.4	5.3	6.6	11.3	9.2	14.3	6.0	2.6	5.8	4.2	1.7	7.2
4.....	5.6	5.5	6.8	14.8	8.5	12.9	5.9	2.9	7.1	4.3	1.5	7.5
5.....	5.9	5.5	9.0	22.1	8.7	11.6	5.9	2.8	7.2	4.0	1.6	9.8
6.....	4.8	6.0	12.8	24.6	8.6	10.2	5.4	2.5	6.6	3.8	1.6	12.7
7.....	4.6	7.0	13.3	26.0	8.6	10.9	5.2	2.4	5.9	3.4	1.6	10.6
8.....	5.4	7.6	12.8	30.0	7.9	10.9	5.5	2.1	4.8	3.3	1.5	8.6
9.....	4.4	6.8	9.8	25.8	7.4	11.6	5.0	2.1	4.5	3.2	1.5	7.6
10.....	4.5	6.0	13.9	23.0	8.3	10.8	4.7	2.0	4.1	2.9	1.5	7.3
11.....	5.7	5.5	22.8	18.3	8.3	9.9	4.5	1.9	3.5	2.9	1.5	9.3
12.....	10.5	5.5	28.7	15.3	11.2	9.3	4.4	1.9	3.3	2.8	1.5	14.7
13.....	15.4	5.6	29.0	13.5	11.6	8.2	4.1	1.8	3.2	2.7	1.6	15.8
14.....	18.0	5.6	25.5	12.4	10.9	7.3	3.8	1.7	3.9	2.6	1.8	14.8
15.....	16.8	5.0	22.0	11.8	10.0	7.3	3.5	1.8	4.5	2.5	3.0	15.6
16.....	13.8	4.8	19.8	12.6	9.5	8.0	3.2	2.3	5.5	2.3	7.2	27.1
17.....	12.4	4.9	17.0	14.3	8.6	7.3	3.0	2.9	7.5	2.2	7.0	33.9
18.....	11.1	4.5	14.8	13.6	8.0	8.3	2.9	3.0	9.0	2.2	6.7	27.2
19.....	10.3	4.7	13.1	12.9	7.2	7.6	4.9	3.7	8.9	2.1	5.7	19.7
20.....	9.0	4.5	11.5	23.8	6.9	7.3	6.3	6.3	8.9	2.1	5.3	14.5
21.....	8.2	4.8	12.0	37.0	6.7	8.0	5.6	6.7	8.0	2.1	5.2	10.8
22.....	7.0	4.7	14.5	41.3	6.7	8.3	5.0	6.9	7.0	2.1	5.1	9.2
23.....	7.0	4.6	16.6	37.0	7.3	9.0	4.3	5.9	6.3	2.1	4.9	8.4
24.....	7.5	8.4	15.6	32.2	7.8	8.8	3.9	5.7	5.7	2.3	4.7	7.8
25.....	8.6	8.4	14.3	30.3	9.5	8.8	3.6	6.5	4.9	2.5	4.8	7.3
26.....	9.0	8.4	13.4	29.0	9.8	8.0	3.3	7.2	4.5	2.5	10.0	8.1
27.....	8.7	6.6	15.0	25.5	11.3	7.9	3.0	7.7	4.1	2.3	14.6	9.1
28.....	8.4	6.3	20.9	21.3	19.1	7.8	2.8	7.2	3.7	2.2	13.0	11.9
29.....	7.8		24.0	16.9	24.0	7.9	2.7	6.5	3.5	2.1	11.5	15.7
30.....	7.6		21.0	13.7	25.0	7.9	2.4	5.7	3.6	2.0	9.9	18.7
31.....	6.6		17.0		23.0		2.2	5.4		1.9		23.6
<b>Means.</b>	<b>8.4</b>	<b>5.9</b>	<b>15.7</b>	<b>20.9</b>	<b>10.7</b>	<b>9.8</b>	<b>4.4</b>	<b>4.0</b>	<b>5.6</b>	<b>2.8</b>	<b>4.7</b>	<b>13.2</b>

## OHIO RIVER SYSTEM—OHIO RIVER, WHEELING, W. VA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	21.6	10.4	28.8	13.3	6.5	7.8	11.2	11.9	2.3	3.0	2.9	7.5
2.....	16.0	11.3	42.0	13.3	6.8	6.0	18.5	10.7	2.2	3.0	3.0	6.9
3.....	12.0	10.5	42.0	13.2	7.2	5.6	19.9	10.3	2.2	3.0	3.1	6.8
4.....	9.9	10.2	37.9	12.9	7.2	4.9	17.5	9.0	2.2	3.0	3.1	7.1
5.....	8.9	10.1	30.0	12.6	7.3	4.5	24.0	8.3	2.2	4.5	3.3	8.9
6.....	7.8	8.9	22.5	12.9	7.9	4.2	21.6	7.9	2.2	5.5	3.1	9.5
7.....	6.8	7.6	17.1	14.0	7.6	4.0	16.6	7.0	2.1	5.7	2.8	8.9
8.....	6.5	6.4	14.1	15.0	8.3	4.2	13.9	6.6	2.3	5.5	2.9	8.3
9.....	6.5	5.2	14.0	18.8	7.9	4.8	12.7	6.0	2.0	5.3	2.8	7.9
10.....	6.8	5.0	15.5	29.8	7.7	4.6	14.9	6.0	2.0	4.7	2.7	7.5
11.....	6.9	5.2	21.8	32.9	7.0	4.0	16.9	5.9	2.0	5.0	2.6	7.5
12.....	6.4	5.2	21.8	30.2	6.9	3.9	20.3	5.7	1.9	5.9	2.8	7.9
13.....	6.0	5.3	20.9	28.6	6.1	3.8	16.0	5.5	2.0	6.4	2.7	17.6
14.....	5.3	5.0	22.2	25.3	6.0	4.0	13.0	5.8	2.0	10.5	2.7	24.3
15.....	4.5	4.8	24.8	20.5	5.7	4.1	10.4	5.5	2.0	8.9	2.7	23.3
16.....	4.2	4.8	22.5	16.4	5.4	4.4	8.9	5.9	1.9	7.7	2.6	19.3
17.....	4.0	7.2	19.2	14.8	4.8	4.5	7.7	4.6	1.9	6.7	2.4	19.6
18.....	4.5	10.0	18.5	12.3	5.0	4.4	6.9	3.9	1.9	6.1	2.6	25.6
19.....	4.6	9.7	18.6	11.2	5.0	5.9	6.0	3.7	1.7	6.1	2.6	23.5
20.....	4.3	9.2	16.2	10.2	4.9	6.2	6.4	3.4	1.6	5.9	2.8	17.1
21.....	4.5	9.3	13.5	9.3	4.9	5.9	8.0	3.7	1.4	5.3	3.0	13.6
22.....	4.5	9.3	11.8	9.0	5.1	5.2	9.4	3.6	1.1	4.9	3.0	12.9
23.....	4.3	9.6	10.6	8.2	5.6	5.0	12.5	3.5	1.2	4.1	3.3	15.8
24.....	4.4	9.4	9.9	8.2	5.8	4.9	13.0	3.1	1.2	3.9	3.3	19.5
25.....	4.6	7.4	9.2	7.8	5.5	5.1	12.3	3.0	1.2	3.9	3.3	18.1
26.....	4.9	10.7	8.6	7.4	5.3	5.6	11.3	2.9	1.3	3.6	3.4	15.0
27.....	5.9	12.0	8.1	7.0	5.6	6.1	12.8	2.6	1.7	3.4	3.7	12.5
28.....	6.6	17.7	7.9	6.6	5.3	6.6	11.9	2.8	1.9	3.3	11.0	10.3
29.....	18.4	.....	8.9	6.3	8.5	6.9	10.0	2.5	2.4	3.2	9.9	8.9
30.....	16.0	.....	10.9	6.6	8.6	7.9	9.7	2.5	2.6	2.9	8.3	8.0
31.....	10.8	.....	12.0	.....	7.9	.....	10.9	2.4	.....	2.9	.....	7.8
Means.	7.7	8.5	18.8	14.5	6.4	5.2	13.1	5.4	1.9	5.0	3.6	13.1
<b>1903</b>												
1.....	10.5	29.1	28.6	11.6	6.6	6.0	12.7	4.2	11.7	2.6	3.3	5.0
2.....	9.6	24.6	<sup>a</sup> 39.7	10.9	6.2	5.5	11.9	6.4	11.5	2.5	3.2	4.9
3.....	9.6	20.7	37.3	10.8	5.9	4.9	9.6	6.1	10.0	2.3	3.1	4.6
4.....	14.0	24.8	27.9	10.3	5.5	4.1	7.9	5.1	8.7	2.2	3.1	4.6
5.....	23.6	30.0	20.3	11.8	5.2	3.7	7.3	5.0	7.3	2.3	3.0	4.4
6.....	22.0	34.6	16.6	15.2	5.1	3.9	6.9	4.5	6.2	2.4	2.9	4.5
7.....	17.9	30.5	15.2	15.0	5.0	3.9	11.3	4.2	5.0	3.3	3.2	3.1
8.....	14.2	22.8	17.6	16.5	5.0	3.8	11.4	4.2	4.9	3.9	2.9	3.9
9.....	12.0	18.0	22.2	13.0	5.1	3.4	8.6	4.4	4.4	6.1	3.1	3.8
10.....	10.1	15.5	29.1	16.6	4.9	5.9	7.4	4.9	4.7	8.9	3.3	3.9
11.....	8.7	13.3	31.2	17.3	4.4	7.2	6.6	4.7	5.6	10.3	3.3	3.8
12.....	7.8	11.9	29.9	16.5	4.3	6.3	5.9	4.4	5.7	9.3	3.3	3.4
13.....	7.2	11.5	27.1	15.4	4.2	5.0	5.9	4.0	5.7	8.1	3.1	4.0
14.....	9.3	14.9	23.0	18.3	3.9	5.6	6.3	3.9	5.6	7.1	3.0	3.0
15.....	9.6	15.3	18.9	18.0	3.9	6.9	7.9	3.4	5.6	6.1	2.9	3.4
16.....	8.3	17.4	15.9	18.3	3.7	9.0	8.1	3.3	5.1	5.1	2.9	3.4
17.....	7.9	23.8	13.6	18.5	3.2	9.4	7.0	2.9	4.7	5.3	3.5	3.2
18.....	7.9	27.0	12.5	19.5	2.9	8.5	6.0	2.8	4.1	4.9	8.5	3.3
19.....	7.9	20.6	11.5	16.9	2.9	7.3	5.7	2.7	3.8	4.9	16.3	4.3
20.....	7.4	13.9	10.9	14.3	2.8	6.5	7.1	2.6	4.7	4.9	15.0	4.4
21.....	7.6	10.7	10.2	12.0	2.7	6.4	9.3	3.0	4.5	5.1	12.1	5.0
22.....	7.2	9.4	10.0	9.4	2.7	5.9	10.9	2.8	4.3	5.0	10.0	6.0
23.....	7.2	9.0	11.1	9.3	3.2	8.5	10.8	2.9	4.2	4.4	8.9	6.9
24.....	7.7	8.9	14.7	8.3	3.6	11.3	9.3	2.9	3.9	4.8	7.9	8.5
25.....	7.7	7.8	23.0	8.1	3.7	14.7	8.1	2.6	3.4	4.3	7.6	8.0
26.....	7.3	8.9	22.2	7.6	4.6	13.3	7.3	2.5	3.4	3.9	7.1	8.0
27.....	6.9	8.9	18.3	7.4	6.3	10.4	6.6	2.4	2.9	3.8	6.3	8.0
28.....	7.5	13.0	14.3	7.2	6.3	8.8	5.6	2.9	2.9	3.7	5.9	9.9
29.....	10.1	.....	11.9	7.0	8.1	8.3	4.9	7.5	1.8	3.7	5.9	8.8
30.....	17.6	.....	10.7	6.9	7.6	9.0	4.7	11.9	2.7	3.7	5.6	7.6
31.....	25.5	.....	11.8	.....	6.4	.....	3.9	10.0	.....	3.6	.....	6.6
Means.	10.9	17.7	19.6	12.9	4.7	7.1	7.8	4.4	5.3	4.8	5.7	5.2

<sup>a</sup> Maximum stage, 40.2.

## OHIO RIVER SYSTEM—OHIO RIVER, WHEELING, W. VA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	6.3	9.5	15.6	14.7	18.2	10.3	5.9	3.8	3.4	3.6	3.9	1.6
2.....	6.0	8.6	26.3	28.9	17.1	13.9	6.4	3.9	3.0	3.5	3.6	1.6
3.....	5.3	8.1	25.5	33.9	15.4	17.0	6.8	3.7	3.0	3.1	3.3	1.6
4.....	4.9	7.5	36.8	28.6	13.3	16.0	6.4	3.6	2.9	3.1	2.9	1.6
5.....	5.5	6.5	38.5	22.0	11.6	13.6	6.2	3.9	2.6	3.1	2.7	1.6
6.....	9.7	6.1	29.0	16.6	10.1	11.2	6.9	3.7	2.8	3.1	2.7	2.0
7.....	12.2	5.5	22.7	14.0	9.3	9.9	8.0	3.1	2.5	2.9	2.6	2.5
8.....	12.7	9.6	28.4	12.3	8.1	10.0	11.6	2.9	2.4	2.8	2.5	2.3
9.....	12.3	23.9	36.3	11.4	7.9	9.3	14.2	2.9	2.8	2.8	2.3	2.0
10.....	11.6	26.3	29.3	11.3	7.3	8.9	11.3	2.7	2.8	2.8	2.2	1.5
11.....	11.5	20.6	22.3	11.9	6.9	8.5	10.9	2.6	2.5	2.8	2.2	1.4
12.....	11.3	16.4	18.3	13.1	6.6	7.9	13.9	2.2	2.3	2.7	2.2	2.3
13.....	10.9	13.2	15.6	12.8	6.2	7.4	13.1	2.2	2.2	2.7	2.2	1.9
14.....	10.8	11.2	13.6	11.9	5.9	6.7	11.4	2.2	2.2	2.6	2.2	2.5
15.....	10.7	9.7	11.9	11.2	5.6	5.9	9.9	2.4	2.5	2.6	2.1	1.9
16.....	10.2	8.7	10.9	10.4	5.9	5.6	9.1	2.4	2.2	2.6	2.2	1.9
17.....	10.1	7.9	10.1	9.8	6.2	5.2	7.9	2.3	2.1	3.6	2.1	2.0
18.....	10.1	5.7	9.5	9.3	6.9	5.5	6.9	2.4	1.9	3.7	2.1	1.4
19.....	9.9	6.0	9.3	9.3	7.1	5.2	6.2	1.6	1.9	3.5	2.0	1.6
20.....	9.6	5.0	9.9	9.0	8.5	4.9	5.2	2.9	1.6	3.1	1.9	1.5
21.....	11.1	4.0	10.9	8.6	14.9	4.9	4.7	2.5	1.9	2.9	1.9	1.4
22.....	20.6	5.2	12.5	7.4	14.4	5.9	4.9	2.6	1.8	2.9	1.9	1.9
23.....	34.2	7.6	14.2	7.8	12.9	6.3	4.5	2.7	1.6	2.6	1.9	1.9
24.....	43.9	11.8	17.9	7.3	11.8	6.0	4.1	3.1	1.5	2.8	1.8	2.0
25.....	41.0	12.9	24.6	7.3	10.9	6.3	4.2	3.9	1.4	2.8	1.8	2.5
26.....	31.5	11.9	22.6	7.7	11.3	6.2	4.7	4.1	1.4	2.6	1.7	3.4
27.....	22.5	9.8	21.9	8.6	11.6	5.6	4.3	5.1	1.4	4.2	1.3	11.3
28.....	19.8	8.2	24.2	11.9	12.4	5.0	3.9	4.1	1.3	4.9	1.5	12.9
29.....	13.0	9.5	23.0	17.8	14.0	5.9	4.2	3.9	1.3	4.2	1.5	15.0
30.....	10.8		19.0	19.2	12.3	7.4	3.9	3.7	2.1	3.9	1.8	16.4
31.....	10.0		15.6		10.6		3.6	3.6		3.9		12.6
Means.	14.5	10.2	20.2	13.5	10.4	8.1	7.3	3.1	2.2	3.2	2.2	3.8

## OHIO RIVER SYSTEM—OHIO RIVER, PARKERSBURG, W. VA.

1900												
1.....	8.1	Frozen.	11.4	10.9	7.0	5.0	5.0	7.5	4.8	1.4	3.2	20.8
2.....	7.3		18.2	11.4	6.9	5.0	6.4	7.0	4.5	1.3	3.1	16.3
3.....	Frozen.		20.0	11.8	6.8	6.0	5.8	7.3	4.4	1.1	3.0	13.8
4.....			21.8	11.6	6.6	7.0	5.0	6.9	3.6	1.1	3.0	11.9
5.....			19.7	11.0	6.5	7.0	5.6	5.8	3.4	1.0	2.5	11.5
6.....		7.8	17.4	11.0	6.4	6.8	5.8	4.8	3.3	0.8	2.3	12.0
7.....		8.4	17.8	11.0	6.2	6.6	5.9	3.6	3.3	1.3	2.3	15.5
8.....	4.3	9.8	22.0	10.9	5.9	6.5	5.6	3.6	3.2	1.5	2.5	17.0
9.....	6.0	16.0	25.2	10.8	5.9	6.2	5.8	3.2	2.9	1.5	2.5	15.4
10.....	6.8	22.3	23.8	10.9	6.4	6.0	6.1	3.2	2.8	1.4	2.8	13.2
11.....	7.2	25.3	21.6	11.0	6.7	6.5	7.3	3.0	2.8	1.3	2.6	11.8
12.....	11.6	24.0	15.6	11.0	6.6	6.3	7.0	2.8	2.4	1.2	2.6	10.8
13.....	11.8	21.8	15.2	10.4	6.0	5.9	6.2	2.4	2.3	1.2	2.6	10.1
14.....	14.8	22.0	13.6	8.8	5.2	5.6	7.7	2.2	2.2	1.2	2.6	8.6
15.....	16.6	20.8	12.0	8.6	5.2	5.5	7.7	2.1	2.2	1.3	2.8	7.0
16.....	14.7	21.8	11.3	8.4	5.4	5.5	7.0	2.1	2.3	1.3	2.9	6.6
17.....	13.2	20.4	10.6	8.3	5.8	6.2	7.0	2.6	2.3	1.4	3.4	6.6
18.....	12.8	16.6	9.9	8.2	5.8	7.6	6.0	3.1	2.1	1.8	3.5	6.3
19.....	16.2	13.0	9.8	8.0	5.8	7.6	4.6	3.2	2.0	1.6	3.6	6.0
20.....	17.2	10.9	13.2	8.0	6.1	8.7	5.9	3.2	1.8	2.0	3.7	5.9
21.....	17.5	9.8	14.0	8.7	6.8	8.3	6.0	4.2	1.5	2.0	4.0	5.9
22.....	16.8	9.8	16.6	9.0	5.6	8.6	5.6	4.2	1.5	1.9	4.4	5.9
23.....	22.0	11.4	18.9	10.6	5.5	7.8	5.6	4.3	1.4	1.9	4.9	5.7
24.....	22.2	12.6	16.8	10.7	6.2	7.2	5.0	4.4	1.4	2.1	7.0	5.5
25.....	19.3	15.2	14.0	10.2	6.0	6.4	4.8	5.9	1.3	2.0	9.2	5.4
26.....	16.4	16.6	12.1	9.8	6.0	5.6	5.0	5.5	1.3	2.0	11.5	5.3
27.....	13.7	15.0	12.4	9.7	5.8	4.9	7.1	6.2	1.2	2.4	15.8	5.2
28.....	11.8	12.0	12.7	9.0	5.4	4.8	7.3	5.9	1.2	2.4	25.2	5.2
29.....	11.0		12.4	8.4	5.0	4.6	7.9	5.8	1.2	3.0	30.0	5.2
30.....	9.8		12.0	7.4	4.8	4.8	8.9	5.7	1.3	4.0	27.0	5.2
31.....	9.4		11.4		4.7		8.0	5.2		3.8		6.2
Means.	13.0	15.8	15.6	9.8	6.0	6.4	6.3	4.4	2.4	1.7	6.6	9.3



## OHIO RIVER SYSTEM—OHIO RIVER, PARKERSBURG, W. VA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	6.3	8.6	.....	17.0	18.0	22.8	7.0	2.8	6.8	4.2	2.1	9.0
2.....	7.6	7.8	4.6	14.1	13.0	20.0	7.6	2.6	6.8	4.7	2.1	8.7
3.....	6.6	7.0	4.6	12.9	11.0	16.7	7.0	2.9	6.8	4.8	2.1	8.0
4.....	5.6	9.3	4.4	22.0	10.0	12.0	7.0	2.9	6.6	5.0	2.2	8.0
5.....	4.5	9.8	4.6	23.0	9.5	11.0	7.0	2.8	7.3	5.0	2.1	8.0
6.....	4.0	9.5	11.1	24.0	7.9	11.0	6.8	2.8	7.7	4.8	2.1	11.0
7.....	3.5	9.0	13.8	25.6	7.9	11.4	6.8	2.9	6.2	4.5	2.0	11.9
8.....	3.8	9.0	13.0	26.0	7.9	14.0	6.8	3.2	6.0	4.2	2.0	10.0
9.....	4.8	9.5	11.0	28.0	7.9	14.0	6.6	3.0	5.6	3.9	1.9	9.0
10.....	5.2	9.0	11.4	26.0	7.8	11.6	6.0	3.0	5.0	3.8	1.9	8.0
11.....	5.6	8.6	18.8	21.8	8.4	11.0	6.0	2.8	5.0	3.6	1.9	8.0
12.....	7.8	8.0	25.6	17.8	8.8	10.4	5.5	2.8	5.0	3.4	1.9	9.0
13.....	12.9	7.6	28.8	14.5	9.6	9.8	5.5	2.5	5.0	3.2	2.0	12.0
14.....	16.3	6.8	29.0	13.6	11.4	9.5	5.3	2.2	4.5	3.2	2.1	10.8
15.....	17.8	7.0	26.4	12.0	11.0	9.2	4.0	1.9	5.1	3.0	2.4	11.0
16.....	15.8	6.7	22.9	12.9	10.6	9.0	4.0	2.8	4.6	3.0	2.8	21.0
17.....	13.6	6.4	20.2	13.0	9.6	11.8	5.5	3.0	6.0	2.8	6.4	27.6
18.....	10.6	6.3	17.3	14.0	8.8	10.4	6.5	3.2	8.0	2.7	7.4	28.8
19.....	10.6	6.0	15.0	14.6	8.8	10.0	6.0	3.6	9.0	2.6	6.6	25.0
20.....	10.2	6.0	13.0	27.8	7.6	9.2	6.0	3.7	8.5	2.6	5.3	18.0
21.....	9.3	6.0	12.0	37.0	7.4	9.0	6.0	5.6	8.0	2.6	5.0	13.0
22.....	8.6	5.6	13.0	41.0	7.6	9.0	6.0	6.4	7.6	2.5	4.8	10.0
23.....	7.8	5.1	15.0	a 43.0	9.6	11.8	6.0	7.0	7.0	2.5	4.7	8.8
24.....	8.3	5.0	16.1	43.7	10.0	14.5	5.6	6.4	7.0	2.4	5.7	8.6
25.....	8.7	5.0	15.4	41.7	9.8	14.6	5.4	6.0	6.5	2.6	5.8	8.6
26.....	8.8	5.0	14.0	39.0	10.4	13.6	5.0	5.4	5.8	2.6	7.0	9.0
27.....	9.0	4.8	15.6	36.0	15.8	14.0	4.2	7.5	5.0	2.4	10.5	11.6
28.....	9.8	.....	18.0	32.0	17.2	9.3	3.5	6.4	5.0	2.3	14.0	12.0
29.....	9.6	.....	21.6	27.6	22.0	8.3	3.0	6.4	4.9	2.2	12.6	13.2
30.....	9.4	.....	22.6	22.0	24.0	8.7	3.0	6.4	4.3	2.1	10.4	20.0
31.....	9.0	.....	20.2	.....	25.0	.....	2.8	7.0	.....	2.0	.....	22.0
Means.	8.8	7.2	16.0	24.8	11.4	11.9	5.6	4.1	6.2	3.3	4.7	12.9
<b>1902</b>												
1.....	23.8	14.0	26.5	14.8	9.0	8.8	12.6	11.0	3.0	2.7	3.2	9.0
2.....	20.0	12.0	32.6	16.6	8.2	7.6	15.0	11.0	2.8	4.1	3.0	8.0
3.....	16.0	11.5	38.2	16.0	8.0	7.0	19.0	10.0	3.0	3.9	3.1	8.4
4.....	12.2	11.6	40.0	14.0	8.2	6.1	18.8	9.2	2.8	4.0	3.1	8.9
5.....	10.8	10.5	37.0	13.5	8.6	5.6	18.8	8.6	2.8	4.4	3.1	9.0
6.....	9.0	9.5	31.0	12.9	8.6	5.4	23.0	7.8	2.7	5.3	3.4	10.0
7.....	8.1	9.0	25.5	13.8	8.4	5.0	20.6	7.4	2.7	6.7	3.3	11.5
8.....	7.0	9.0	18.5	15.5	8.4	4.5	17.0	7.0	2.8	7.2	3.4	11.0
9.....	6.6	8.5	17.0	17.5	8.6	4.0	14.5	6.4	2.8	6.8	3.4	9.6
10.....	6.5	8.5	21.2	25.0	8.6	4.3	13.2	6.0	2.6	6.5	3.2	9.0
11.....	6.8	8.2	20.0	32.3	8.0	4.4	14.0	7.0	2.6	6.1	3.2	8.7
12.....	7.0	.....	22.4	34.2	7.6	4.0	17.0	7.0	2.5	6.2	3.1	11.0
13.....	6.7	.....	23.0	32.0	7.4	3.8	18.2	6.6	2.5	7.7	3.0	15.0
14.....	6.6	.....	23.0	30.0	6.8	6.0	15.5	6.4	2.6	8.0	3.0	23.5
15.....	6.2	.....	23.7	26.8	6.6	6.0	12.6	6.4	2.6	9.8	2.9	24.9
16.....	6.0	.....	24.5	24.8	6.6	4.0	10.4	6.3	2.4	9.1	2.9	27.0
17.....	5.8	.....	23.0	19.0	6.6	4.0	9.0	6.1	2.3	7.8	3.0	29.0
18.....	5.5	.....	21.0	14.0	6.4	4.0	8.4	6.1	2.3	7.6	3.2	26.6
19.....	5.4	.....	19.0	12.0	6.0	4.0	7.8	5.6	2.3	7.3	3.2	26.2
20.....	5.2	.....	18.0	10.8	5.9	5.0	9.8	5.0	2.3	7.0	3.2	23.0
21.....	5.2	.....	16.3	10.0	5.8	7.0	9.0	4.6	2.1	6.7	3.8	18.0
22.....	6.7	.....	15.0	9.0	5.8	7.0	9.4	4.9	2.1	6.4	3.9	15.8
23.....	6.7	.....	12.0	8.2	6.1	6.0	10.0	4.7	2.0	6.0	4.0	15.0
24.....	6.4	4.5	10.4	8.2	6.4	6.0	12.0	4.6	1.9	5.8	4.0	17.2
25.....	6.4	8.0	9.8	8.2	7.0	5.0	12.6	4.3	1.9	5.2	4.9	19.0
26.....	6.6	3.4	8.6	8.0	8.8	6.0	11.7	4.1	1.9	4.8	10.0	16.0
27.....	9.7	16.5	8.0	8.0	8.9	7.3	10.9	3.9	2.8	4.2	8.8	14.0
28.....	15.0	17.0	8.0	7.8	8.0	7.4	8.0	3.7	3.5	3.6	8.0	11.3
29.....	11.5	.....	8.4	7.3	7.4	8.4	10.8	3.7	2.3	3.6	11.8	10.5
30.....	17.0	.....	11.0	10.0	8.4	9.2	10.0	3.2	2.5	3.5	10.0	12.0
31.....	15.0	.....	13.0	.....	9.0	.....	10.0	3.0	.....	3.4	.....	11.5
Means.	9.3	10.7	20.2	16.0	7.6	5.8	13.2	6.2	2.5	5.9	4.4	15.1

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—OHIO RIVER, PARKERSBURG, W. VA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	9.6	27.0	30.0	15.0	8.0	7.6	8.0	4.8	10.0	3.4	3.9	6.2
2.....	10.5	31.0	36.0	12.8	7.2	7.3	11.5	4.6	10.0	3.4	3.8	5.8
3.....	14.0	27.0	<sup>a</sup> 39.4	12.0	7.0	6.9	9.0	6.0	10.8	3.2	3.6	5.6
4.....	18.0	25.0	38.0	12.0	7.0	6.0	9.0	6.5	9.4	3.2	3.6	5.4
5.....	20.5	32.5	33.0	12.6	6.8	5.8	8.0	6.0	8.8	3.0	3.6	5.0
6.....	24.0	34.0	25.0	14.0	6.6	5.7	8.7	5.4	8.0	2.7	3.4	4.8
7.....	22.0	35.0	18.0	16.0	6.6	5.6	7.8	5.2	7.0	2.6	3.4	4.8
8.....	17.0	33.0	22.9	16.0	6.6	7.0	10.5	5.0	6.9	3.4	3.4	4.6
9.....	15.0	25.0	27.0	20.0	6.5	7.6	10.5	4.8	6.0	3.9	3.5	4.6
10.....	12.5	19.6	29.5	18.0	6.5	6.8	8.5	4.5	5.0	5.0	3.4	4.2
11.....	10.5	16.0	32.0	18.0	6.3	6.0	7.6	4.2	5.0	7.6	3.5	4.0
12.....	7.5	15.0	34.1	17.6	6.0	8.0	7.0	4.0	5.4	11.0	3.6	4.0
13.....	10.0	14.0	33.3	16.0	6.0	7.5	7.4	4.0	5.6	9.0	3.6	4.0
14.....	8.7	14.0	27.4	23.5	5.6	7.0	7.6	4.0	6.3	8.0	3.5	4.0
15.....	9.1	15.0	25.9	26.0	5.3	6.0	7.8	3.8	6.0	7.1	3.4	3.8
16.....	9.5	25.0	21.5	27.0	5.0	7.6	8.1	3.8	5.6	6.7	3.3	3.6
17.....	9.0	27.1	17.5	27.0	4.8	8.6	8.4	3.8	5.6	6.0	3.4	3.4
18.....	8.7	28.2	15.2	23.0	4.6	9.4	7.4	3.7	5.0	6.0	3.8	3.4
19.....	8.7	26.6	13.0	21.4	4.3	8.5	6.6	3.3	5.0	5.8	7.0	3.2
20.....	9.0	20.6	12.5	19.0	4.0	7.6	6.6	3.4	5.0	5.0	14.9	3.2
21.....	10.0	15.0	10.6	17.0	3.8	7.0	8.0	3.1	4.6	5.0	13.6	3.4
22.....	10.0	12.1	12.0	12.0	3.5	7.6	9.0	3.2	4.8	5.6	12.0	6.0
23.....	10.0	10.7	12.4	11.0	3.5	8.3	10.3	3.2	4.6	5.4	9.8	6.5
24.....	9.0	11.0	18.3	9.0	4.2	9.5	10.0	3.1	4.6	5.0	9.0	6.6
25.....	8.6	11.0	19.3	8.5	6.4	11.4	9.0	3.0	4.3	4.8	7.6	7.0
26.....	8.0	10.7	23.0	8.5	7.4	13.4	7.6	3.0	4.0	4.6	7.6	6.6
27.....	8.5	10.0	20.0	9.6	8.0	12.0	7.0	2.9	4.0	4.5	7.5	9.4
28.....	7.8	18.0	17.6	9.0	8.3	9.7	6.6	2.9	3.8	4.2	7.1	8.8
29.....	8.0	.....	15.0	9.0	7.8	10.5	6.0	2.8	3.7	4.0	6.7	9.2
30.....	14.0	.....	12.0	8.0	8.0	9.5	5.6	10.0	3.4	4.0	6.6	8.8
31.....	21.0	.....	17.0	.....	8.5	.....	5.4	11.3	.....	3.9	.....	8.0
Means.	11.9	21.0	22.9	15.6	6.1	8.0	8.1	4.5	5.9	5.1	5.8	5.4
<b>1904</b>												
1.....	7.0	10.0	13.0	17.0	23.4	11.0	8.6	4.8	4.3	1.8	4.5	1.6
2.....	6.4	9.6	21.0	21.0	19.2	13.5	7.8	4.6	4.3	2.4	4.3	1.6
3.....	6.0	9.0	27.4	31.0	17.6	16.9	8.0	4.6	4.0	3.7	4.0	1.6
4.....	5.8	8.4	33.0	34.8	15.8	18.1	8.0	4.4	3.8	3.7	3.8	1.6
5.....	5.4	8.2	37.3	32.7	13.8	17.8	7.8	4.4	3.5	3.3	3.7	1.8
6.....	5.4	8.0	38.6	27.0	12.0	17.0	7.4	4.0	3.1	3.2	3.5	1.8
7.....	5.0	8.3	35.0	19.8	10.5	12.0	7.6	4.0	3.0	3.2	3.5	2.0
8.....	5.0	8.9	33.5	15.0	9.6	10.6	9.0	3.8	2.8	3.0	3.4	2.2
9.....	6.0	15.4	33.6	13.6	8.3	10.0	14.8	3.6	2.8	2.8	3.2	2.2
10.....	6.4	24.0	35.0	12.4	8.0	9.2	15.5	3.4	2.6	2.8	3.0	2.0
11.....	6.4	24.5	32.6	11.4	7.4	9.0	13.0	3.4	2.6	2.8	2.8	2.0
12.....	6.4	20.0	28.0	13.0	7.0	8.6	12.5	3.2	2.6	3.1	2.8	2.0
13.....	6.6	16.0	22.0	13.2	7.0	8.3	14.0	3.0	2.4	3.3	2.6	2.1
14.....	6.4	13.2	15.0	12.4	6.9	8.0	13.0	2.9	2.4	3.3	2.6	2.1
15.....	6.1	12.0	14.0	11.4	6.6	7.4	11.8	2.8	2.3	3.1	2.5	2.0
16.....	6.1	10.7	13.2	11.0	6.5	6.8	10.4	3.0	2.3	3.0	2.3	1.8
17.....	6.1	9.6	12.0	10.5	7.0	6.6	9.6	2.8	2.3	2.8	2.2	1.8
18.....	6.0	9.0	10.9	10.0	7.2	6.4	8.3	2.7	2.2	3.1	2.1	1.8
19.....	6.0	8.0	10.1	9.5	7.4	6.4	7.6	2.7	2.2	3.8	2.1	1.8
20.....	6.0	7.0	9.6	9.2	8.0	6.0	7.0	3.5	2.2	3.4	2.0	1.8
21.....	6.0	6.6	12.0	9.0	9.0	6.0	6.4	3.0	2.1	3.4	2.0	1.8
22.....	8.8	6.6	13.0	8.5	14.0	6.2	6.0	2.8	2.1	3.3	2.1	1.7
23.....	26.5	7.0	19.0	7.8	13.6	7.6	5.8	3.0	2.1	3.1	2.0	2.0
24.....	35.2	10.5	20.8	7.6	12.0	7.9	5.4	3.2	1.9	3.1	2.0	2.0
25.....	41.4	14.0	22.4	7.4	10.7	8.3	5.0	3.4	1.8	3.0	2.0	2.2
26.....	<sup>b</sup> 42.0	13.0	24.0	8.4	10.0	7.6	5.0	4.2	1.8	3.0	1.9	2.8
27.....	37.7	11.6	25.0	8.7	10.8	7.0	5.0	4.5	1.7	3.0	1.8	4.5
28.....	26.4	10.0	25.8	14.4	12.0	6.6	4.9	4.8	1.7	3.0	1.8	12.0
29.....	18.5	8.8	26.6	17.4	12.5	6.4	4.8	4.3	1.7	4.8	1.8	13.5
30.....	14.0	.....	25.8	21.4	13.0	7.0	4.8	4.3	1.7	5.2	1.7	15.0
31.....	11.6	.....	21.0	.....	12.0	.....	4.8	4.3	.....	4.6	.....	15.0
Means.	12.5	11.3	22.9	14.9	10.9	9.3	8.4	3.7	2.5	3.3	2.7	3.6

<sup>a</sup> Maximum stage, 39.9.<sup>b</sup> 42.4 at midnight.

## OHIO RIVER SYSTEM—OHIO RIVER, POINT PLEASANT, W. VA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	6.5	7.5	14.6	14.5	8.0	4.4	8.0	7.3	3.3	1.3	3.1	30.1
2.....	5.4	7.1	18.2	13.8	6.9	4.6	7.8	6.0	3.0	1.3	2.4	23.5
3.....	3.8	6.4	27.6	13.9	6.3	4.0	6.9	4.9	2.9	1.1	2.5	18.8
4.....	2.8	5.6	29.4	14.0	5.5	4.3	5.9	4.7	2.7	1.0	2.5	15.3
5.....	3.2	5.0	27.7	13.6	5.7	5.4	5.3	4.0	2.7	1.0	2.5	15.3
6.....	3.5	6.5	24.3	13.0	5.4	6.8	4.8	3.7	2.5	1.0	3.7	20.2
7.....	3.4	7.8	21.6	12.6	4.9	5.3	4.2	3.1	2.4	1.0	3.5	21.0
8.....	3.5	9.5	23.2	12.4	4.8	4.6	4.0	2.7	2.4	1.0	3.0	21.3
9.....	4.0	14.8	27.4	12.0	4.8	4.3	3.8	2.5	2.2	1.6	2.7	21.2
10.....	4.2	20.5	29.0	11.6	5.2	4.9	4.0	2.2	2.0	1.3	2.7	19.3
11.....	5.0	25.2	27.0	11.6	5.5	5.1	4.5	2.2	2.0	1.3	2.8	16.5
12.....	6.5	28.0	24.1	11.9	5.9	4.5	5.2	2.0	1.7	1.2	2.8	13.9
13.....	12.2	27.7	21.0	11.8	5.5	4.1	5.1	1.9	1.6	1.2	2.5	12.0
14.....	14.6	27.9	18.5	10.9	4.8	4.5	4.3	2.0	1.5	1.2	2.3	10.4
15.....	17.8	30.3	16.2	10.1	4.4	4.3	6.0	1.8	1.5	1.2	2.3	9.1
16.....	18.3	29.1	14.4	9.4	4.5	4.3	5.8	2.0	1.5	1.2	2.4	7.8
17.....	16.1	27.5	13.1	8.7	4.5	7.0	5.4	2.7	1.4	1.2	2.2	6.7
18.....	14.5	23.7	11.8	8.1	5.0	10.1	4.7	2.4	3.7	1.4	2.2	5.8
19.....	16.5	19.5	11.8	7.8	5.0	11.7	4.0	2.4	2.7	1.5	2.2	5.6
20.....	20.9	15.4	16.2	8.8	7.7	10.5	3.6	2.0	2.5	1.6	2.4	5.0
21.....	22.2	12.2	23.4	10.5	8.0	11.1	4.3	2.9	1.4	1.5	3.4	4.3
22.....	23.7	11.3	26.1	11.6	7.5	10.4	3.9	3.7	1.6	1.5	4.5	4.1
23.....	24.8	13.8	26.8	12.1	6.3	8.6	4.2	3.6	1.5	1.5	5.5	4.6
24.....	25.8	18.1	24.8	13.1	5.4	6.5	4.4	3.2	1.4	1.5	5.1	4.8
25.....	24.6	19.9	21.7	13.2	4.9	5.5	3.8	3.0	1.5	4.5	8.2	4.8
26.....	21.5	20.5	18.2	12.4	4.7	4.5	5.5	4.2	1.3	10.0	14.3	4.8
27.....	17.9	20.1	16.6	11.8	5.0	3.6	7.1	4.7	1.3	6.3	27.3	4.8
28.....	14.8	17.5	16.3	11.1	5.3	4.6	8.0	3.9	1.5	4.0	33.0	4.8
29.....	12.8	.....	16.5	10.1	4.7	4.4	8.0	3.8	1.4	2.9	34.6	4.8
30.....	10.9	.....	16.3	8.9	4.3	5.1	8.3	3.7	1.3	1.9	34.0	4.7
31.....	8.9	.....	15.4	.....	4.3	.....	8.1	3.6	.....	2.2	.....	5.7
<b>Means.</b>	<b>12.6</b>	<b>17.1</b>	<b>20.6</b>	<b>11.5</b>	<b>5.5</b>	<b>6.0</b>	<b>5.4</b>	<b>3.3</b>	<b>2.0</b>	<b>2.0</b>	<b>7.4</b>	<b>11.0</b>
<b>1901</b>												
1.....	7.6	8.0	3.8	22.7	28.0	32.0	12.6	3.0	8.0	5.5	2.0	10.0
2.....	6.8	7.4	3.8	19.4	21.6	28.5	11.9	3.0	7.5	5.3	2.0	8.6
3.....	6.5	6.7	3.2	16.4	16.5	24.9	11.1	2.7	7.7	4.8	2.0	7.2
4.....	6.1	9.0	3.1	24.4	13.5	20.8	10.2	2.8	7.4	4.6	2.0	6.6
5.....	5.3	12.4	6.4	33.8	11.6	17.5	9.4	2.8	6.7	3.8	1.9	7.1
6.....	5.0	13.5	11.1	33.3	10.5	15.4	9.3	2.7	7.0	3.3	1.9	8.3
7.....	5.1	11.4	16.0	31.9	9.9	14.7	9.6	3.5	7.2	3.7	1.9	10.5
8.....	5.0	9.4	16.8	32.0	9.6	18.2	9.0	9.3	6.7	3.5	1.9	11.4
9.....	4.6	9.5	15.4	32.9	9.8	19.8	8.5	10.0	5.8	3.4	1.9	9.8
10.....	4.3	9.5	13.8	32.8	10.4	16.8	8.2	6.4	4.6	3.2	1.9	8.1
11.....	4.2	9.3	16.5	30.4	10.3	15.0	7.3	4.5	4.2	3.0	1.9	7.0
12.....	6.8	9.2	23.8	25.8	11.5	13.6	6.2	3.8	3.8	3.0	1.9	7.8
13.....	13.9	8.3	29.7	21.0	13.2	12.4	5.6	3.5	4.0	3.0	1.9	10.4
14.....	21.2	7.8	32.3	17.7	14.9	11.3	5.2	4.3	4.1	2.9	1.9	14.8
15.....	22.6	6.6	31.6	16.2	14.6	10.9	5.0	5.9	4.0	2.6	1.9	19.5
16.....	21.4	6.1	29.0	18.2	13.3	10.6	5.9	7.8	4.1	3.2	1.9	30.5
17.....	18.7	5.7	25.6	19.6	11.8	14.4	7.7	7.2	4.3	3.4	1.9	36.0
18.....	15.8	5.4	22.2	19.0	10.6	19.0	6.8	6.9	6.3	2.9	3.5	36.0
19.....	13.7	5.3	19.4	19.1	9.4	19.9	7.6	6.1	8.5	2.3	5.5	33.5
20.....	12.0	5.1	16.5	32.0	8.5	17.9	7.0	7.1	10.2	2.3	5.6	28.0
21.....	10.6	4.8	14.5	44.0	8.0	14.7	6.4	6.5	9.6	2.3	4.1	21.0
22.....	9.0	4.8	13.9	51.0	9.2	12.8	7.1	6.8	8.8	2.3	3.7	15.7
23.....	8.1	4.6	15.9	52.6	19.0	19.5	6.5	7.7	7.8	2.3	3.7	12.0
24.....	7.8	4.1	17.8	53.0	30.4	32.2	5.8	8.0	6.7	2.2	4.0	9.7
25.....	8.2	3.9	18.3	52.6	25.6	32.2	5.0	8.0	5.7	2.2	4.3	8.8
26.....	8.7	3.7	17.4	52.2	19.0	27.7	3.9	8.6	4.9	2.2	5.1	9.5
27.....	9.8	3.7	17.9	49.2	20.8	23.0	3.6	7.8	4.5	2.0	5.8	11.2
28.....	10.2	3.7	20.7	46.5	27.0	17.9	3.0	8.0	4.2	2.2	11.0	17.2
29.....	9.8	.....	24.1	41.4	31.9	14.6	2.9	8.4	4.0	2.0	12.8	19.0
30.....	9.2	.....	26.3	34.9	34.5	13.3	2.8	9.2	3.8	2.0	11.8	29.6
31.....	8.6	.....	25.5	.....	34.4	.....	3.1	10.4	.....	2.0	.....	39.4
<b>Means.</b>	<b>9.9</b>	<b>7.1</b>	<b>17.8</b>	<b>32.5</b>	<b>16.8</b>	<b>18.7</b>	<b>6.9</b>	<b>6.2</b>	<b>6.1</b>	<b>3.0</b>	<b>3.8</b>	<b>15.3</b>

## OHIO RIVER SYSTEM—OHIO RIVER, POINT PLEASANT, W. VA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	38.3	28.6	38.5	20.6	10.3	9.0	13.0	9.4	1.8	2.5	2.1	10.4
2.....	33.3	24.3	45.0	20.8	9.4	8.0	16.8	11.1	1.7	2.3	2.1	9.2
3.....	27.2	22.1	46.3	20.5	7.7	6.7	18.7	11.4	1.7	2.3	2.0	9.5
4.....	21.2	20.7	45.7	19.0	7.7	5.4	21.0	10.5	1.7	2.7	2.0	9.8
5.....	16.0	17.7	44.9	18.0	7.7	4.5	21.5	9.7	1.6	2.6	2.0	10.3
6.....	12.8	14.7	42.2	18.1	7.8	4.5	22.7	8.6	1.6	2.6	2.0	11.3
7.....	10.4	12.8	36.0	18.1	7.6	3.7	23.5	7.8	1.5	3.4	2.0	12.4
8.....	9.3	11.1	30.7	19.1	7.9	3.7	21.7	7.1	1.5	4.5	2.0	12.5
9.....	8.3	9.2	28.5	21.0	7.8	3.7	18.2	6.3	1.5	6.1	2.0	12.0
10.....	7.7	7.9	32.0	26.4	8.1	3.5	16.0	5.9	1.8	4.7	2.0	10.9
11.....	7.5	7.6	31.8	33.4	7.9	3.8	15.0	4.9	1.6	3.9	2.0	9.3
12.....	7.5	6.7	30.3	38.2	7.6	3.9	16.0	5.2	1.6	3.8	2.0	9.4
13.....	7.2	6.0	30.1	38.9	7.2	4.3	18.7	5.3	1.5	3.9	2.0	15.6
14.....	6.6	5.5	31.1	37.5	6.5	4.0	19.0	4.8	1.7	5.5	1.9	25.2
15.....	6.3	5.2	31.5	34.5	5.9	5.3	16.8	4.5	1.6	6.8	1.8	28.9
16.....	5.8	4.7	30.9	30.1	5.3	5.7	13.0	4.4	1.5	9.1	1.8	32.5
17.....	5.1	4.9	30.7	24.7	4.7	5.7	10.9	4.2	1.4	8.1	1.8	34.9
18.....	4.9	4.6	30.4	20.1	5.0	4.9	8.4	3.9	1.4	6.9	1.8	34.7
19.....	4.8	4.9	28.8	16.8	4.9	5.7	7.0	3.4	1.2	5.4	1.8	33.1
20.....	4.6	4.5	26.0	14.8	4.5	5.2	6.8	3.1	1.3	4.7	1.8	31.0
21.....	4.9	4.5	22.7	13.5	4.5	4.7	9.0	3.0	1.2	4.7	2.2	26.4
22.....	4.9	4.5	19.9	12.4	4.4	6.0	8.5	3.0	1.2	4.5	2.7	21.8
23.....	5.2	4.9	16.6	11.4	4.8	6.0	8.7	2.9	1.1	4.0	3.0	18.5
24.....	5.5	5.3	14.5	10.7	5.3	5.4	10.0	2.9	1.1	3.7	2.6	17.5
25.....	5.5	7.5	13.0	10.1	6.0	5.0	11.9	2.9	1.0	3.2	3.4	19.7
26.....	5.4	21.0	11.8	9.5	11.2	7.6	12.4	2.8	1.0	2.8	6.5	20.5
27.....	9.0	29.0	11.0	8.7	13.2	8.6	11.5	2.5	1.3	2.6	10.0	18.7
28.....	22.3	29.9	10.2	8.1	11.3	9.1	10.6	2.4	1.3	2.5	9.7	15.5
29.....	24.8	.....	10.0	7.6	9.5	9.6	10.9	2.2	1.3	2.5	8.4	13.2
30.....	23.9	.....	13.0	9.3	8.8	10.4	10.4	2.1	1.3	2.4	11.3	14.0
31.....	29.5	.....	19.0	.....	9.4	.....	9.6	1.9	.....	2.3	.....	15.4
<b>Means.</b>	<b>12.4</b>	<b>11.8</b>	<b>27.5</b>	<b>19.7</b>	<b>7.4</b>	<b>5.8</b>	<b>14.1</b>	<b>5.2</b>	<b>1.4</b>	<b>4.1</b>	<b>3.3</b>	<b>18.2</b>
<b>1903</b>												
1.....	13.8	27.5	35.0	20.4	11.2	11.2	10.3	3.8	10.3	1.8	2.3	3.7
2.....	11.2	33.3	42.5	21.1	9.9	8.0	10.6	3.3	9.5	1.7	2.3	3.7
3.....	15.5	34.4	44.9	18.2	8.9	7.2	12.2	3.5	10.2	1.6	2.2	3.6
4.....	23.1	33.0	45.0	16.6	8.1	6.2	11.0	4.9	10.1	1.6	2.1	3.5
5.....	28.0	36.5	43.4	16.5	7.5	4.9	8.9	5.7	8.8	1.5	2.1	3.2
6.....	29.9	40.7	38.3	16.8	7.2	4.6	7.7	4.5	7.2	1.5	2.0	2.9
7.....	29.5	41.0	31.6	18.4	6.8	5.5	7.2	4.1	5.7	1.5	1.9	2.7
8.....	27.0	39.5	27.7	20.2	6.3	7.5	7.2	3.7	4.8	1.6	1.9	2.7
9.....	23.0	35.7	31.1	25.1	6.1	8.7	10.2	3.2	3.9	1.8	1.8	2.7
10.....	18.5	29.8	33.9	27.8	6.0	9.2	10.2	3.2	3.5	2.1	2.0	2.5
11.....	14.6	25.3	36.7	26.3	5.6	7.1	8.6	2.9	3.2	3.2	2.0	4.7
12.....	13.8	20.4	38.9	24.7	5.4	6.0	6.8	3.0	3.1	7.6	1.9	3.0
13.....	15.0	18.5	40.3	23.6	4.5	7.2	5.6	3.2	3.4	8.7	2.0	2.2
14.....	13.8	18.9	39.7	26.3	3.8	6.9	6.1	3.1	3.9	7.9	2.0	2.0
15.....	10.8	19.6	36.7	31.9	4.4	6.0	6.0	2.9	3.9	6.7	2.0	2.0
16.....	10.8	26.8	32.2	35.2	4.2	5.3	6.9	2.8	3.8	5.3	2.0	2.0
17.....	11.1	36.6	26.7	36.5	4.0	5.8	7.7	2.7	3.8	4.5	2.2	2.0
18.....	10.3	40.1	22.2	34.5	3.9	7.4	7.2	2.5	3.7	3.9	2.5	1.9
19.....	9.9	40.1	18.9	31.0	3.7	8.4	6.1	2.4	3.5	3.6	2.5	1.9
20.....	9.6	35.1	16.7	27.7	3.4	7.7	5.3	2.1	4.2	3.4	9.4	1.9
21.....	9.2	27.7	15.5	24.0	2.8	6.7	4.6	2.1	3.2	3.2	13.7	2.3
22.....	10.4	20.7	16.1	20.6	2.6	5.9	5.7	2.1	2.9	3.4	13.0	3.4
23.....	11.2	16.5	17.3	17.6	2.8	6.8	7.6	1.9	2.9	3.5	10.9	5.4
24.....	11.2	14.6	26.6	15.1	3.0	7.3	9.5	1.8	3.0	3.5	8.9	5.5
25.....	10.8	14.2	35.2	13.4	3.4	9.3	9.1	2.1	2.9	3.4	7.4	7.8
26.....	10.6	14.0	34.0	13.5	4.8	11.6	8.1	1.9	2.7	3.2	6.4	9.1
27.....	10.2	13.6	31.4	14.0	7.1	13.4	6.9	1.9	2.5	3.0	5.6	8.8
28.....	9.8	18.6	27.4	15.3	7.1	12.5	5.5	1.8	2.3	2.7	5.0	7.9
29.....	10.7	.....	22.4	14.9	6.9	11.7	4.9	1.8	2.2	2.4	4.6	7.6
30.....	14.8	.....	18.0	12.9	6.9	11.1	4.2	1.8	2.0	2.3	4.0	8.0
31.....	20.9	.....	19.4	.....	8.7	.....	3.9	8.5	.....	2.3	.....	7.3
<b>Means.</b>	<b>15.1</b>	<b>27.6</b>	<b>30.5</b>	<b>22.0</b>	<b>5.7</b>	<b>7.9</b>	<b>7.5</b>	<b>3.1</b>	<b>4.6</b>	<b>3.4</b>	<b>4.3</b>	<b>4.1</b>

## OHIO RIVER SYSTEM—OHIO RIVER, POINT PLEASANT, W. VA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	6.2	11.8	12.5	24.4	26.2	13.5	7.6	3.8	2.7	0.8	2.4	0.9
2.....	5.7	10.4	17.7	21.7	25.4	12.8	9.0	3.8	2.5	0.7	2.2	0.9
3.....	5.2	9.2	26.2	26.4	23.4	16.4	8.5	3.1	2.3	0.7	2.2	0.8
4.....	4.7	8.2	31.3	33.2	20.9	19.6	7.9	3.0	2.2	1.5	2.2	0.8
5.....	4.4	7.6	36.5	35.9	18.2	20.5	7.4	3.1	2.0	1.9	2.2	0.9
6.....	4.1	6.8	40.0	34.6	16.0	19.0	6.1	3.1	2.0	1.9	2.0	0.9
7.....	3.3	6.5	40.8	29.7	13.8	16.4	5.4	3.0	2.0	1.8	1.8	0.9
8.....	3.9	8.2	39.7	23.0	12.1	13.7	5.8	3.0	2.0	1.7	1.5	1.1
9.....	4.0	14.2	39.0	18.0	10.8	11.8	10.5	3.0	2.0	1.6	1.4	1.6
10.....	4.6	21.1	39.4	15.0	9.5	10.4	15.4	2.8	2.0	1.6	1.4	1.6
11.....	4.8	26.8	38.0	13.7	8.3	9.5	15.2	2.3	1.8	1.6	1.4	1.8
12.....	4.8	26.4	34.2	13.5	7.6	8.9	13.1	2.4	1.6	1.5	1.4	1.7
13.....	4.5	22.0	28.4	14.0	7.1	8.9	13.2	2.1	1.6	1.5	1.3	1.6
14.....	4.4	17.5	23.0	14.3	6.9	8.0	14.2	2.6	1.6	1.7	1.2	1.5
15.....	4.3	14.2	19.4	14.0	6.2	7.6	13.1	2.3	1.5	1.7	1.2	1.7
16.....	4.0	11.5	16.8	13.1	5.7	6.6	11.5	2.0	1.5	1.6	1.2	1.4
17.....	4.4	9.5	15.0	12.3	5.7	5.3	10.0	1.9	1.4	1.5	1.2	1.1
18.....	4.5	8.4	13.7	11.7	5.3	5.0	8.7	1.8	1.4	1.4	1.2	1.1
19.....	4.0	7.3	12.7	11.0	6.3	4.5	7.1	1.8	1.4	1.5	1.3	1.0
20.....	4.7	6.5	12.2	10.5	8.4	4.7	6.3	2.0	1.3	1.9	1.4	1.0
21.....	5.5	5.4	12.5	10.0	11.1	4.6	5.0	2.1	1.3	2.1	1.2	0.9
22.....	5.1	5.1	13.5	9.5	14.2	4.7	4.4	1.9	1.3	2.0	1.2	0.9
23.....	16.2	7.1	18.0	8.9	17.8	6.0	4.1	2.2	1.2	1.8	1.2	0.8
24.....	30.5	12.5	25.5	8.4	17.0	6.3	3.9	2.1	1.1	1.6	1.1	0.9
25.....	37.9	15.4	26.6	7.8	15.0	6.5	3.6	2.0	1.0	1.5	1.1	1.0
26.....	41.7	17.7	28.0	8.4	13.5	6.3	3.3	2.3	0.9	1.4	1.0	1.1
27.....	42.1	16.6	30.0	11.1	13.0	5.7	3.2	2.4	0.9	1.4	1.0	3.1
28.....	38.2	14.6	30.4	19.0	13.7	5.1	3.3	3.2	0.8	1.4	1.0	3.6
29.....	30.0	12.9	30.3	23.8	13.5	5.3	3.5	3.2	0.8	1.4	1.0	11.8
30.....	21.1	.....	29.7	25.5	14.1	5.9	3.3	3.3	0.8	2.3	1.0	14.4
31.....	14.9	.....	27.2	.....	14.5	.....	3.2	3.0	.....	2.8	.....	15.8
Means.	12.1	12.5	26.1	17.4	12.9	9.3	7.6	2.6	1.6	1.6	1.4	2.5

## OHIO RIVER SYSTEM—OHIO RIVER, HUNTINGTON, W. VA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	10.3	11.6	19.8	18.7	12.1	7.5	11.1	11.4	6.2	3.0	4.9	34.7
2.....	10.0	10.9	20.4	17.9	11.0	7.9	11.4	10.0	5.9	2.8	5.2	29.2
3.....	8.1	10.6	29.8	18.7	10.0	7.1	11.1	8.5	5.6	2.6	4.6	24.5
4.....	6.8	9.1	32.8	18.0	9.2	7.0	9.7	8.0	5.4	2.4	4.7	20.5
5.....	5.5	8.6	32.0	17.7	8.9	8.0	8.9	7.5	5.2	2.3	4.7	19.6
6.....	6.0	9.1	29.3	17.1	8.7	8.6	8.2	6.8	4.9	2.1	6.0	23.8
7.....	6.1	10.6	26.5	16.6	8.2	9.5	7.7	6.2	4.7	2.0	6.5	25.5
8.....	6.2	12.8	26.4	16.3	8.2	8.1	7.0	5.7	4.5	2.0	6.1	25.2
9.....	6.5	16.9	29.6	16.0	8.1	7.6	6.9	5.0	4.5	2.9	5.4	25.3
10.....	7.0	23.1	32.0	15.5	8.2	7.9	6.9	4.5	4.4	3.2	5.0	23.9
11.....	7.5	28.4	31.6	15.2	9.0	8.2	7.2	4.2	4.3	3.1	4.6	21.4
12.....	8.9	30.8	29.2	15.5	9.6	8.0	8.0	4.0	4.2	3.1	4.8	18.7
13.....	13.7	31.9	26.0	15.6	9.4	7.5	8.3	3.7	4.3	3.0	4.8	16.6
14.....	16.2	32.6	23.3	15.0	8.8	7.3	7.7	3.5	4.0	3.0	4.5	14.9
15.....	20.2	34.0	20.8	14.0	8.1	7.6	7.8	3.4	3.9	3.0	4.6	13.5
16.....	21.9	33.4	19.0	13.3	7.7	7.6	9.2	3.2	3.8	2.9	4.8	12.0
17.....	20.3	31.7	17.5	12.7	7.9	9.8	8.8	4.2	3.7	2.8	4.8	10.8
18.....	18.5	29.0	16.1	12.0	8.0	13.2	8.1	4.8	5.1	2.7	4.8	9.7
19.....	19.6	24.8	16.0	11.5	8.5	15.8	7.4	4.0	5.9	2.6	4.6	9.2
20.....	23.6	20.7	20.8	11.8	11.5	15.5	6.7	4.1	5.5	3.3	4.9	8.5
21.....	26.2	17.3	29.3	13.6	12.3	14.7	6.8	4.4	4.8	3.3	5.8	7.9
22.....	27.2	15.9	32.0	15.0	12.0	14.6	7.2	5.7	3.4	3.3	7.5	7.3
23.....	27.9	17.8	31.3	15.8	10.7	13.0	7.0	6.8	3.6	3.4	9.5	7.5
24.....	28.8	21.9	29.8	16.8	9.4	10.8	7.6	6.8	4.2	3.3	9.5	7.9
25.....	28.4	24.3	26.3	17.1	8.6	9.6	6.7	6.3	3.2	5.4	10.7	8.0
26.....	26.0	24.5	23.4	16.6	8.0	8.3	9.2	6.0	3.0	13.4	19.6	8.0
27.....	22.7	24.3	21.3	16.7	8.0	7.2	11.0	7.7	2.8	11.5	32.5	7.9
28.....	19.4	22.3	20.5	15.1	8.7	7.7	11.0	7.5	2.7	8.0	36.8	8.0
29.....	17.2	.....	21.5	14.1	8.3	8.1	11.9	6.8	2.8	6.4	37.7	8.0
30.....	15.2	.....	20.4	13.1	7.9	7.6	11.9	6.6	3.1	4.8	37.3	7.9
31.....	13.0	.....	19.8	.....	7.8	.....	12.1	6.5	.....	4.0	.....	8.9
Means.	16.0	21.0	25.0	15.4	9.1	9.4	8.7	5.9	4.3	3.9	10.2	15.3

## OHIO RIVER SYSTEM—OHIO RIVER, HUNTINGTON, W. VA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	11.6	12.0	6.5	27.8	36.3	36.9	16.7	5.6	11.3	7.7	4.4	13.8
2.....	11.0	11.6	6.8	24.8	29.1	33.8	16.0	5.5	11.1	8.4	4.3	12.5
3.....	10.3	8.6	6.4	22.3	23.3	30.4	15.2	5.2	11.0	8.1	4.2	11.0
4.....	9.8	12.2	5.9	26.0	19.1	26.3	14.2	5.1	11.0	7.6	4.1	9.9
5.....	9.0	15.9	6.8	36.3	17.0	22.7	13.3	5.2	10.3	6.8	4.0	9.9
6.....	8.2	18.0	11.9	37.3	14.9	20.1	12.9	5.2	9.9	5.8	4.0	11.1
7.....	8.4	17.1	17.7	36.0	14.0	19.0	13.4	5.2	10.4	6.0	4.0	12.3
8.....	8.5	14.6	20.3	35.5	13.7	21.1	13.0	8.2	10.1	6.4	4.0	14.7
9.....	7.9	13.6	19.5	35.9	13.8	24.8	12.5	14.6	9.4	6.3	4.0	13.8
10.....	7.6	13.8	18.0	36.2	14.3	22.5	12.0	11.7	8.4	6.0	3.9	11.1
11.....	7.5	13.3	18.7	34.7	14.3	20.0	11.4	8.6	7.3	5.8	3.9	10.7
12.....	9.1	13.5	24.5	31.4	15.2	18.3	10.3	7.1	6.5	5.6	3.9	10.5
13.....	17.5	12.8	30.6	27.0	17.1	17.0	9.2	6.3	6.7	5.6	3.9	12.2
14.....	24.5	11.9	34.1	23.0	19.1	14.7	8.5	6.3	6.8	5.4	3.9	17.0
15.....	26.6	10.9	34.6	20.9	19.3	15.0	8.1	6.4	6.9	5.1	3.9	24.0
16.....	25.7	9.9	33.0	21.6	18.1	14.8	7.9	10.4	6.9	5.4	3.8	33.2
17.....	23.4	9.3	30.2	23.9	16.4	16.9	10.9	11.2	7.2	6.3	3.9	37.8
18.....	20.6	8.9	27.2	23.5	15.1	24.0	10.7	10.7	8.7	5.8	4.0	38.6
19.....	18.2	7.8	23.1	24.5	13.8	25.2	10.2	10.0	11.5	5.3	6.7	37.1
20.....	16.3	8.7	21.3	37.9	12.8	23.7	10.8	10.2	13.4	4.8	9.5	32.2
21.....	14.8	8.3	19.1	47.1	12.1	20.2	9.8	10.3	13.5	4.7	7.4	27.1
22.....	14.3	8.2	17.8	52.6	14.3	17.6	10.0	9.7	12.6	4.7	6.6	20.2
23.....	12.2	8.3	18.8	55.4	23.2	23.9	10.1	10.6	11.6	4.7	7.3	16.5
24.....	11.4	7.5	20.8	56.8	33.9	35.2	9.3	11.2	10.6	4.6	6.6	14.0
25.....	11.7	7.3	22.0	57.4	22.2	38.1	8.5	11.0	9.3	4.5	6.9	12.7
26.....	12.0	6.9	21.7	57.3	25.2	34.0	7.6	12.2	8.2	4.5	7.7	13.3
27.....	13.2	6.8	22.8	55.9	24.2	29.6	6.6	11.4	7.7	4.5	8.4	14.4
28.....	13.9	6.8	25.1	52.7	29.6	24.2	5.8	11.3	6.3	4.5	12.0	22.4
29.....	13.7	.....	27.8	48.5	33.1	19.8	5.3	11.4	7.0	4.4	15.5	24.6
30.....	13.1	.....	29.7	43.0	38.1	17.7	5.3	11.6	6.7	4.4	15.5	33.2
31.....	12.6	.....	29.6	.....	38.6	.....	5.5	14.1	.....	4.5	.....	42.8
<b>Means.</b>	<b>13.7</b>	<b>10.9</b>	<b>21.0</b>	<b>37.1</b>	<b>21.0</b>	<b>23.6</b>	<b>10.4</b>	<b>9.1</b>	<b>9.3</b>	<b>5.6</b>	<b>6.1</b>	<b>19.8</b>
<b>1902</b>												
1.....	42.7	36.7	43.2	24.9	14.0	12.4	16.9	13.0	4.1	4.5	4.8	14.6
2.....	39.0	32.4	49.0	24.7	13.9	12.1	20.1	14.0	4.1	5.0	5.0	13.3
3.....	33.8	28.7	49.5	24.5	13.6	10.8	22.4	15.1	4.0	4.8	4.8	13.3
4.....	27.8	26.2	49.0	23.2	12.7	9.4	24.4	14.4	4.1	5.2	4.6	13.7
5.....	21.9	23.4	48.3	22.1	11.4	8.2	24.7	13.6	4.1	5.6	4.5	14.4
6.....	18.2	19.8	47.3	21.9	11.5	7.6	25.8	12.7	3.9	5.3	4.4	15.2
7.....	15.1	17.6	43.9	21.7	11.2	7.2	26.7	11.7	3.8	5.7	4.3	16.2
8.....	13.5	16.0	39.4	22.5	11.5	7.0	25.5	11.0	3.7	6.7	4.6	16.7
9.....	12.4	13.6	36.7	24.1	11.4	7.0	22.7	10.1	3.7	7.9	4.6	16.3
10.....	11.5	11.9	38.8	27.1	11.6	6.6	20.3	9.1	4.0	8.9	4.6	15.2
11.....	11.0	11.1	38.4	34.5	11.5	6.7	18.7	8.6	4.0	7.2	4.5	13.7
12.....	10.7	10.6	36.3	39.5	11.3	6.9	18.8	8.3	3.9	7.0	4.5	13.8
13.....	10.7	9.3	35.1	41.3	11.3	7.5	21.2	8.7	3.9	6.8	4.5	17.8
14.....	10.1	8.8	35.4	40.8	11.2	7.4	22.4	8.3	3.7	7.6	4.5	26.4
15.....	9.6	7.1	35.8	38.8	11.1	7.5	20.7	7.8	4.0	8.9	4.3	31.2
16.....	9.1	6.9	35.2	35.3	10.2	9.2	17.8	7.5	3.9	12.1	4.3	36.7
17.....	8.5	6.3	35.5	30.6	9.1	9.0	15.1	7.3	3.8	12.2	4.2	39.6
18.....	7.9	7.4	35.5	25.7	8.6	8.9	12.8	7.1	3.6	10.9	4.3	39.8
19.....	7.7	6.9	34.3	21.0	8.2	9.0	11.0	6.6	3.5	9.3	4.3	38.0
20.....	7.5	6.8	31.2	20.9	7.8	9.5	10.8	6.0	3.4	8.1	4.2	35.9
21.....	7.7	6.9	28.1	17.8	7.6	8.6	11.6	5.9	3.4	7.8	4.2	31.7
22.....	7.9	7.0	24.8	16.7	7.6	9.2	11.6	5.8	3.3	7.7	4.9	27.6
23.....	8.1	7.3	21.3	15.7	7.5	9.5	12.1	5.7	3.3	7.3	5.8	23.5
24.....	8.6	7.8	18.2	14.9	8.3	9.1	12.8	5.7	3.3	6.9	5.6	21.5
25.....	8.7	9.5	17.3	14.2	10.3	8.4	14.7	5.6	3.3	6.4	6.0	22.5
26.....	7.9	23.8	16.0	13.4	14.2	9.7	15.7	5.6	3.3	5.8	9.0	23.3
27.....	14.2	32.9	15.0	12.6	17.6	12.3	15.3	5.3	3.7	5.5	12.6	22.8
28.....	27.0	35.5	14.1	12.0	16.7	12.7	14.4	5.0	3.7	5.3	14.2	20.2
29.....	31.9	.....	13.8	11.7	14.5	14.0	14.4	4.8	3.6	5.2	12.5	17.9
30.....	31.5	.....	18.9	13.4	13.0	14.5	14.3	4.6	3.4	5.1	14.3	18.6
31.....	37.7	.....	23.3	.....	12.8	.....	13.5	4.3	.....	4.9	.....	18.6
<b>Means.</b>	<b>16.8</b>	<b>15.6</b>	<b>32.5</b>	<b>23.6</b>	<b>11.4</b>	<b>9.3</b>	<b>17.7</b>	<b>8.4</b>	<b>3.7</b>	<b>7.0</b>	<b>6.0</b>	<b>22.3</b>

## OHIO RIVER SYSTEM—OHIO RIVER, HUNTINGTON, W. VA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	18.7	29.1	39.3	25.3	16.7	13.4	14.4	6.9	13.3	4.3	4.9	6.9
2.....	16.8	34.2	45.7	25.0	14.9	13.2	13.9	6.3	13.2	4.2	4.8	6.6
3.....	19.1	37.5	47.9	23.5	13.5	11.4	15.1	6.3	13.2	4.2	4.8	6.6
4.....	26.0	37.7	48.3	21.9	12.7	10.7	15.3	6.7	13.8	4.1	4.7	6.2
5.....	31.1	41.0	47.4	21.3	12.0	9.4	13.3	8.6	13.0	4.0	4.6	5.9
6.....	32.8	44.4	44.0	21.3	11.4	8.1	11.9	8.3	11.5	3.9	4.5	5.8
7.....	33.2	44.7	38.7	22.4	10.9	9.0	11.4	7.5	9.7	3.8	4.3	5.7
8.....	31.7	43.6	34.4	24.5	10.4	10.7	10.9	7.0	8.5	4.0	4.3	5.6
9.....	28.3	41.0	35.7	31.0	10.0	12.1	12.2	6.4	8.0	4.3	4.3	5.7
10.....	24.0	36.4	38.7	34.2	9.7	13.5	14.3	6.2	6.7	4.5	4.5	5.3
11.....	19.6	29.6	41.4	32.6	9.5	12.1	13.1	6.0	6.3	4.9	4.5	7.2
12.....	18.6	26.4	43.4	30.2	9.1	10.1	11.0	5.6	6.0	8.7	4.5	7.4
13.....	19.1	23.7	44.7	29.0	8.5	10.2	9.4	5.9	6.0	11.7	4.5	5.5
14.....	18.8	22.2	44.6	30.5	7.4	10.6	9.5	6.0	6.6	11.8	4.5	5.0
15.....	16.4	22.8	42.2	36.3	7.6	10.0	9.7	5.9	6.9	10.6	4.5	4.7
16.....	14.9	31.5	38.6	40.1	7.8	9.0	10.3	5.7	6.8	9.2	4.5	4.5
17.....	15.2	41.9	33.6	41.7	7.5	8.4	10.8	5.6	6.8	8.1	4.9	4.3
18.....	14.7	46.4	28.6	40.5	7.3	10.0	11.0	5.5	6.7	7.2	5.5	4.8
19.....	14.0	46.2	24.7	37.2	7.0	11.5	10.1	5.3	6.5	6.7	5.3	6.0
20.....	13.7	41.3	22.0	33.9	6.8	11.1	9.2	5.2	7.1	6.4	6.0	6.3
21.....	13.2	35.4	20.2	31.2	6.5	10.6	8.2	4.7	6.8	6.2	15.7	4.9
22.....	13.9	38.2	20.2	27.8	5.6	9.6	8.2	4.8	5.7	6.2	16.8	5.4
23.....	14.8	23.0	21.9	24.4	5.8	9.5	10.2	5.5	5.8	6.3	15.2	7.7
24.....	15.0	20.2	30.2	21.3	6.0	10.5	12.7	4.6	5.8	6.3	13.3	8.6
25.....	15.0	19.2	39.2	19.1	6.2	11.9	13.1	4.7	5.7	6.3	11.5	9.5
26.....	14.8	18.8	38.9	18.7	7.0	14.1	12.0	4.6	5.5	6.3	10.2	12.5
27.....	14.4	18.8	36.5	18.9	9.2	16.6	9.0	4.4	5.3	6.0	9.2	12.3
28.....	14.1	23.7	33.1	20.0	10.8	16.5	9.0	4.3	5.0	5.6	8.2	11.8
29.....	14.5		28.1	20.7	10.7	16.2	8.5	4.2	4.8	5.3	7.8	11.1
30.....	17.5		24.1	18.7	10.6	15.1	7.8	4.4	4.6	5.0	7.5	11.6
31.....	22.5		23.9		11.4		7.3	5.1		4.9		11.1
<b>Means.</b>	<b>19.2</b>	<b>32.5</b>	<b>35.5</b>	<b>27.4</b>	<b>9.4</b>	<b>11.5</b>	<b>11.1</b>	<b>5.7</b>	<b>7.7</b>	<b>6.2</b>	<b>7.0</b>	<b>7.2</b>
<b>1904</b>												
1.....	10.1	16.9	16.6	30.6	30.9	18.9	11.3	6.4	5.8	3.0	5.3	3.3
2.....	9.3	14.4	19.2	27.6	30.1	17.9	12.8	6.9	5.5	2.9	5.0	3.1
3.....	8.6	13.3	26.9	29.2	28.3	19.6	13.4	6.5	5.3	2.8	4.8	3.0
4.....	8.1	12.2	33.0	34.5	25.9	22.6	12.4	5.9	5.0	2.9	4.8	3.1
5.....	8.0	11.4	37.6	38.1	23.4	24.2	11.6	6.0	4.8	4.0	4.7	3.1
6.....	7.1	10.6	41.4	38.5	21.0	23.4	10.7	6.1	4.7	4.4	4.5	3.1
7.....	6.7	10.0	43.0	35.3	18.7	21.0	9.4	6.0	4.9	4.3	4.3	3.1
8.....	6.5	11.5	43.1	29.3	16.9	18.4	8.9	6.0	4.8	4.2	4.1	3.1
9.....	6.8	15.3	42.4	23.9	15.3	16.4	12.3	6.1	4.6	4.0	4.0	3.6
10.....	7.3	22.1	42.4	19.8	14.0	15.0	17.8	5.9	4.5	4.0	3.9	4.2
11.....	7.7	28.3	41.6	18.1	12.8	13.8	19.3	5.3	4.4	3.9	3.8	4.7
12.....	7.8	29.4	39.0	17.2	11.6	13.6	18.0	5.0	4.2	3.8	3.8	4.5
13.....	7.6	26.6	34.0	17.5	11.1	13.2	16.8	5.1	4.1	3.8	3.7	4.3
14.....	7.4	22.2	29.0	17.9	10.7	12.7	17.7	5.0	4.2	4.0	3.6	4.1
15.....	7.2	19.1	24.8	17.7	10.1	11.8	17.5	5.3	4.0	4.1	3.5	4.5
16.....	6.9	16.3	21.9	17.2	9.5	11.2	16.0	5.0	3.8	4.0	3.5	4.7
17.....	7.3	13.9	19.9	16.2	9.2	9.8	14.3	4.5	3.7	4.0	3.5	3.8
18.....	7.6	12.6	18.4	15.6	8.8	8.7	13.0	4.4	3.7	3.8	3.5	3.6
19.....	7.0	11.2	17.2	15.0	9.3	8.0	11.5	4.3	3.7	3.7	3.5	3.7
20.....	7.4	10.3	16.4	14.4	11.5	8.1	10.1	4.5	3.7	3.8	3.7	3.6
21.....	8.6	9.4	16.4	13.9	13.8	8.1	8.9	4.7	3.6	4.5	3.8	3.2
22.....	8.5	9.1	17.0	13.3	17.0	8.1	8.0	4.7	3.5	4.7	3.5	3.1
23.....	13.2	10.4	20.7	12.7	20.2	8.7	7.6	4.6	3.4	4.5	3.5	3.0
24.....	29.4	14.8	28.5	12.1	20.8	9.8	7.1	4.9	3.3	4.1	3.5	3.2
25.....	37.4	18.4	31.2	11.7	19.2	10.1	6.5	4.7	3.2	4.0	3.4	3.0
26.....	41.8	20.8	31.9	12.4	17.6	10.0	6.5	4.7	3.1	3.8	3.4	3.2
27.....	43.7	20.7	34.7	15.1	16.8	10.2	6.3	5.2	3.1	3.6	3.4	4.0
28.....	42.0	18.7	35.2	23.1	17.1	8.9	6.2	5.7	3.0	3.6	3.4	6.5
29.....	36.4	17.4	35.0	29.6	17.2	8.9	6.4	6.1	3.0	3.7	3.4	12.5
30.....	28.0		34.5	30.6	17.6	8.9	6.5	6.2	3.0	4.4	3.3	16.8
31.....	20.6		32.7		18.3		6.1	6.1		5.2		18.6
<b>Means.</b>	<b>14.9</b>	<b>16.1</b>	<b>29.9</b>	<b>21.6</b>	<b>16.9</b>	<b>13.3</b>	<b>11.3</b>	<b>5.4</b>	<b>4.0</b>	<b>3.9</b>	<b>3.9</b>	<b>4.9</b>

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—OHIO RIVER, CATLETTSBURG, KY.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	8.3	9.5	20.5	18.8	11.2	5.4	8.3	11.1	4.4	1.8	2.6	35.9
2.....	7.0	8.1	20.1	17.8	10.2	5.3	10.5	9.5	4.1	1.7	2.5	30.3
3.....	5.5	7.8	30.6	17.5	9.0	5.1	10.3	9.0	3.8	1.7	2.6	25.5
4.....	4.1	7.3	33.7	17.8	8.0	4.4	8.5	6.7	3.6	1.5	2.6	21.1
5.....	3.3	6.9	33.0	17.5	7.0	4.7	7.6	5.7	3.4	1.4	2.5	20.0
6.....	3.9	6.6	30.4	16.9	6.5	6.2	5.9	5.2	3.3	1.6	2.5	24.5
7.....	4.2	7.9	27.5	16.2	6.8	8.1	5.1	4.7	3.0	1.6	2.6	26.4
8.....	4.1	11.9	26.9	15.9	6.8	7.5	5.0	4.1	2.7	1.4	4.7	26.0
9.....	4.5	16.2	30.0	15.6	6.7	6.5	4.8	3.7	2.7	1.7	3.9	26.0
10.....	5.1	21.1	32.8	15.0	6.8	6.6	4.7	3.2	2.5	1.9	3.3	24.5
11.....	5.8	28.7	32.5	14.6	7.8	7.1	4.6	2.9	2.4	1.9	3.1	22.0
12.....	7.5	31.5	30.2	14.9	8.4	6.9	6.0	2.6	2.0	1.7	3.0	19.1
13.....	12.0	32.7	26.9	15.1	8.5	6.3	6.5	2.4	1.7	1.7	2.9	16.7
14.....	16.9	33.5	24.0	14.5	7.9	5.9	6.3	2.2	1.5	1.6	2.6	15.0
15.....	19.8	35.0	21.5	13.5	6.9	6.4	6.8	2.2	1.3	1.6	2.6	13.0
16.....	21.7	34.5	19.0	12.7	6.2	6.8	7.6	2.1	1.2	1.5	2.9	11.3
17.....	20.5	32.5	17.4	11.9	6.4	8.2	7.4	3.0	1.5	1.4	3.0	11.0
18.....	18.5	29.5	16.0	11.0	6.4	12.0	6.9	3.4	2.0	1.3	2.7	9.5
19.....	19.4	25.8	15.6	10.5	7.0	16.0	6.3	2.9	2.8	1.3	2.8	8.0
20.....	23.5	21.3	21.4	10.6	11.0	15.8	5.7	2.7	3.6	1.7	3.0	7.5
21.....	20.7	17.6	30.5	12.5	12.1	14.5	5.5	2.8	3.2	1.9	3.9	6.5
22.....	28.0	15.9	33.0	14.7	11.7	14.3	5.3	3.6	2.1	2.0	6.2	5.8
23.....	28.5	17.5	32.2	15.3	10.2	12.9	5.1	5.1	2.3	2.3	9.5	5.7
24.....	20.5	22.2	30.7	16.5	8.5	9.4	6.0	5.6	2.9	2.3	9.6	6.2
25.....	20.0	24.9	26.7	16.9	7.3	8.6	6.4	5.5	2.5	3.3	10.9	6.3
26.....	20.8	25.0	24.2	16.3	6.3	7.2	7.9	4.5	1.9	11.7	19.9	6.4
27.....	23.2	24.9	21.8	15.4	5.8	6.0	10.0	6.2	1.9	10.9	33.2	6.3
28.....	19.5	23.0	20.5	14.6	6.2	6.0	10.0	6.4	2.0	7.0	37.8	6.5
29.....	17.2	.....	20.7	13.6	6.4	6.6	11.7	5.3	2.1	5.0	38.7	6.4
30.....	15.0	.....	20.5	12.5	6.1	5.9	11.2	5.1	2.0	3.4	38.3	6.3
31.....	12.5	.....	20.0	.....	5.7	.....	11.9	5.1	.....	2.0	.....	7.4
<b>Means.</b>	<b>15.2</b>	<b>20.7</b>	<b>25.5</b>	<b>14.9</b>	<b>7.8</b>	<b>8.1</b>	<b>7.3</b>	<b>4.7</b>	<b>2.5</b>	<b>2.7</b>	<b>8.9</b>	<b>14.9</b>
<b>1901</b>												
1.....	9.2	11.2	4.3	28.7	37.9	37.9	16.5	2.8	11.9	5.8	2.4	13.2
2.....	10.4	11.0	4.4	25.5	30.6	35.2	15.7	2.8	10.5	7.2	2.4	11.9
3.....	9.5	10.2	4.5	23.0	24.2	31.3	14.8	2.6	10.9	6.9	2.4	10.3
4.....	8.5	11.5	4.0	27.0	19.5	27.3	13.8	2.3	10.5	6.2	2.4	9.0
5.....	8.0	15.6	3.8	36.7	16.5	23.3	12.6	2.3	9.5	5.5	2.3	8.6
6.....	7.5	18.4	10.2	38.1	14.7	20.4	12.2	2.3	8.9	4.2	2.1	9.9
7.....	6.8	17.7	17.0	37.0	13.5	19.2	12.8	2.3	9.5	4.2	2.1	11.2
8.....	7.2	15.1	20.4	36.5	13.3	21.2	12.5	5.9	9.1	4.6	2.1	14.2
9.....	6.5	13.5	19.7	36.8	13.0	25.5	12.2	13.7	8.5	4.5	2.0	13.5
10.....	6.2	13.6	18.2	37.0	13.8	24.3	11.6	11.2	7.3	4.5	1.9	11.5
11.....	6.0	13.1	18.3	36.7	13.7	20.4	10.9	7.6	5.9	4.1	1.9	10.0
12.....	7.5	13.0	24.5	32.5	15.0	18.5	9.6	5.3	5.0	3.9	2.0	9.5
13.....	17.5	12.6	30.9	28.1	16.9	17.0	8.2	4.7	5.0	3.8	2.0	11.0
14.....	24.8	11.5	34.7	23.5	19.1	15.5	7.3	5.5	5.1	3.6	2.1	16.2
15.....	26.2	10.1	35.5	21.2	19.5	14.9	6.8	7.7	5.3	3.4	2.1	24.5
16.....	25.5	9.1	34.1	21.5	18.3	14.7	6.5	9.5	5.3	3.1	2.1	34.0
17.....	24.4	8.5	31.0	21.3	16.5	17.0	9.4	10.7	6.0	4.5	2.1	38.5
18.....	21.3	7.8	28.1	23.9	15.0	24.8	9.6	10.3	8.6	4.1	2.2	39.4
19.....	18.7	7.6	24.8	21.7	13.5	26.0	9.0	9.5	11.7	3.4	5.6	38.0
20.....	16.4	7.5	21.6	38.7	13.0	24.5	9.8	9.2	13.3	2.9	8.1	34.2
21.....	14.8	6.8	19.5	48.0	11.8	20.8	8.7	9.5	13.1	2.6	6.2	28.2
22.....	15.0	6.5	17.7	53.2	15.5	17.7	8.6	8.6	12.2	2.8	5.3	21.2
23.....	11.6	6.5	18.5	56.6	25.4	22.0	9.0	9.5	11.1	2.7	4.6	16.6
24.....	10.7	6.2	20.5	58.3	34.6	35.8	8.2	10.2	9.9	2.5	4.9	13.8
25.....	10.7	5.4	22.0	59.1	34.2	39.1	7.5	10.9	8.5	2.5	5.2	12.5
26.....	11.2	4.9	21.9	59.0	26.4	35.5	6.8	11.3	7.3	2.5	6.0	13.0
27.....	12.2	4.5	23.4	57.7	24.5	30.9	5.0	10.6	6.4	2.5	7.1	13.2
28.....	13.2	4.5	25.8	54.1	30.0	25.5	4.1	10.4	6.0	2.5	10.3	23.5
29.....	13.2	.....	28.5	50.1	35.8	20.5	3.5	10.4	5.5	2.5	14.7	25.7
30.....	12.7	.....	30.3	44.6	38.9	17.8	2.5	10.8	5.3	2.4	15.0	34.0
31.....	11.8	.....	30.5	.....	39.7	.....	2.5	13.3	.....	2.4	.....	43.5
<b>Means.</b>	<b>13.1</b>	<b>10.2</b>	<b>20.9</b>	<b>38.1</b>	<b>21.8</b>	<b>24.1</b>	<b>9.3</b>	<b>7.9</b>	<b>8.4</b>	<b>3.8</b>	<b>4.4</b>	<b>19.8</b>



## OHIO RIVER SYSTEM—OHIO RIVER, CATLETTSBURG, KY.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	43.7	38.3	44.4	25.5	13.4	12.3	16.9	12.0	1.9	1.8	2.6	14.1
2.....	40.5	33.8	50.2	25.1	13.5	11.5	20.2	12.9	1.9	2.8	2.9	12.9
3.....	35.2	33.0	50.6	24.7	11.8	10.0	22.9	14.6	1.6	2.7	2.7	12.9
4.....	29.0	25.5	50.0	24.5	10.8	8.4	24.6	13.8	1.8	3.0	2.4	13.4
5.....	22.7	24.4	49.5	22.2	10.5	6.9	24.7	12.9	1.7	3.5	2.3	14.0
6.....	18.7	21.0	48.6	21.5	10.5	6.0	25.9	11.9	1.6	3.3	2.3	14.9
7.....	15.3	17.8	44.4	22.0	10.3	5.9	26.9	10.6	1.5	3.5	2.5	15.9
8.....	13.3	16.3	40.1	22.5	10.5	5.2	25.8	9.9	1.5	4.5	2.5	16.5
9.....	12.1	13.0	38.4	24.5	10.5	5.7	23.0	9.0	1.4	5.9	2.6	16.0
10.....	11.0	12.5	40.4	28.4	10.6	5.5	20.4	8.2	1.6	7.6	2.4	15.0
11.....	10.4	10.2	39.7	35.0	10.8	5.4	18.5	7.2	1.7	5.5	2.4	13.3
12.....	10.0	9.6	37.4	40.2	10.4	5.6	18.4	6.6	1.6	5.2	2.4	12.2
13.....	9.9	8.5	36.4	42.1	10.3	6.0	20.5	7.0	1.5	4.9	2.4	17.3
14.....	9.0	7.8	36.6	41.8	9.2	6.0	22.1	6.8	1.4	5.5	2.4	25.5
15.....	8.5	7.3	36.5	39.9	8.3	5.8	20.8	6.2	1.6	7.2	2.3	31.7
16.....	8.0	6.0	36.3	36.5	7.5	7.5	17.6	5.8	1.8	10.5	2.0	37.8
17.....	7.2	5.7	36.6	31.5	6.9	7.5	14.6	5.8	1.6	11.0	1.9	40.7
18.....	6.5	5.7	36.6	26.5	6.7	7.7	12.1	5.3	1.4	9.9	2.1	41.0
19.....	6.3	5.6	35.6	22.3	6.9	7.9	10.1	4.8	1.2	8.2	2.1	39.1
20.....	6.0	5.6	32.2	19.5	6.3	8.5	9.2	4.2	1.1	6.5	2.0	37.0
21.....	6.2	5.4	29.0	17.5	6.0	8.0	10.0	4.0	1.0	6.0	2.1	33.3
22.....	6.5	5.4	25.5	16.5	6.1	8.0	11.6	3.8	0.9	6.0	2.7	28.6
23.....	7.5	5.8	21.7	15.5	6.0	8.5	11.0	3.6	0.8	5.6	3.5	24.3
24.....	8.2	6.2	19.4	14.5	7.0	8.0	11.9	3.6	0.8	5.0	3.6	21.8
25.....	8.2	8.1	17.4	13.7	9.3	7.3	13.7	3.5	0.8	4.5	4.0	22.5
26.....	8.2	24.0	15.7	12.9	13.0	7.9	15.3	3.5	0.9	3.9	7.3	24.0
27.....	15.5	34.0	14.6	12.0	17.0	11.2	14.9	3.4	1.5	3.5	11.8	23.2
28.....	28.0	36.5	13.7	11.3	16.6	11.8	13.9	3.0	1.2	3.3	14.0	20.5
29.....	33.3		13.7	11.3	14.2	12.9	13.1	2.7	1.2	3.1	12.2	17.9
30.....	33.0		21.8	12.6	12.5	14.7	13.6	2.5	1.1	3.0	13.2	18.8
31.....	39.1		24.0		12.1		12.7	2.2		2.8		19.6
Means.	16.7	15.5	33.5	23.8	10.2	8.1	17.3	6.8	1.4	5.2	4.1	22.4
<b>1903</b>												
1.....	19.0	29.2	40.5	26.0	16.9	12.2	13.6	5.0	11.8	2.1	2.7	5.1
2.....	16.2	35.9	47.0	25.5	15.0	12.6	13.0	4.6	12.2	2.0	2.6	4.8
3.....	18.9	38.3	49.0	24.0	13.3	10.5	14.4	4.4	12.0	1.9	2.6	4.7
4.....	25.9	38.7	49.6	22.3	12.2	9.7	14.6	4.7	12.7	1.8	2.5	4.2
5.....	31.5	42.0	48.6	21.8	11.4	8.2	12.5	7.9	12.0	1.6	2.4	4.0
6.....	33.5	45.5	45.5	21.7	10.6	6.5	10.9	6.8	10.2	1.5	2.2	3.8
7.....	34.1	45.9	40.2	22.7	10.0	7.5	10.4	5.9	9.5	1.5	2.1	3.4
8.....	32.6	44.8	35.9	25.2	9.4	9.3	9.6	5.2	7.0	1.6	2.1	3.4
9.....	29.4	42.2	36.8	32.0	8.9	11.0	10.8	4.5	5.9	2.0	2.1	3.6
10.....	24.8	37.5	39.9	35.4	8.6	12.6	13.4	4.2	4.8	2.2	2.2	3.5
11.....	20.1	31.8	42.5	33.7	8.3	11.4	12.2	4.0	4.2	2.6	2.3	3.9
12.....	18.0	27.3	44.7	31.0	7.8	9.1	10.2	3.6	4.0	6.1	2.3	5.7
13.....	18.0	24.4	46.0	29.8	7.2	8.8	8.6	3.8	3.9	10.2	2.2	3.8
14.....	18.2	23.7	45.9	31.4	6.0	9.5	8.1	4.0	4.4	10.6	2.3	2.9
15.....	17.4	24.2	43.6	37.2	4.7	8.8	8.3	3.9	4.8	9.5	2.3	2.3
16.....	15.0	32.8	40.0	41.1	6.1	7.8	8.9	3.8	4.7	7.9	2.3	2.6
17.....	15.0	43.1	35.0	42.9	6.4	6.9	9.6	3.5	4.7	6.5	2.7	3.9
18.....	14.5	46.9	29.8	41.7	5.7	8.5	9.9	3.0	4.6	5.6	3.5	4.5
19.....	13.5	46.2	25.6	38.5	5.4	10.2	8.8	2.9	4.4	4.6	3.2	5.7
20.....	13.1	42.8	22.4	35.2	5.3	10.5	7.8	2.7	5.2	4.4	3.4	5.8
21.....	12.8	36.9	20.5	32.5	4.9	9.5	6.8	2.5	5.0	4.2	14.3	6.1
22.....	13.1	29.4	20.4	29.0	4.6	8.3	6.5	2.6	3.8	4.0	16.2	3.5
23.....	14.3	24.1	22.1	25.2	4.8	8.0	8.6	2.5	3.7	4.2	14.7	5.8
24.....	14.8	20.8	31.0	22.0	4.8	9.1	11.5	2.3	3.6	4.4	12.7	7.3
25.....	14.7	19.7	40.0	19.6	5.1	10.5	12.0	2.1	3.6	4.4	10.7	7.6
26.....	14.7	19.1	39.9	19.1	5.5	13.0	11.2	2.5	3.5	4.4	9.2	7.2
27.....	14.4	18.7	37.7	19.1	7.5	15.7	9.9	2.4	3.1	3.9	7.9	11.0
28.....	14.0	24.5	34.1	20.2	9.5	15.9	8.3	2.2	2.9	3.6	6.7	11.2
29.....	14.1		29.3	21.2	9.4	15.6	6.9	2.2	2.5	3.2	6.1	9.8
30.....	16.6		24.8	19.1	9.3	14.4	6.1	3.1	2.3	2.9	5.9	10.5
31.....	22.2		24.5		10.0		5.5	3.1		2.7		9.9
Means.	19.2	33.4	36.5	28.2	8.2	10.4	10.0	3.7	5.9	4.1	5.1	5.5

\* 11.5 at 3 a. m.

b 40.0 during day.

c 49.7 during day.

d 43.0 during day.

e 47.1 during day.

## OHIO RIVER SYSTEM—OHIO RIVER, CATLETTSBURG, KY.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	8.9	17.0	16.5	32.0	31.9	17.9	10.5	4.3	3.9	1.1	3.3	1.2
2.....	8.4	14.0	18.5	28.8	31.0	18.0	12.5	5.0	3.5	1.1	2.9	1.1
3.....	7.3	12.8	26.9	29.2	29.2	18.5	13.4	4.7	3.3	1.1	2.7	1.1
4.....	6.7	11.4	33.1	34.9	26.7	22.5	12.0	4.0	3.3	1.1	2.7	1.1
5.....	5.9	10.4	38.1	38.9	24.1	24.5	11.0	3.9	2.9	1.6	2.6	1.1
6.....	5.1	9.6	41.9	39.5	21.5	22.8	10.0	4.1	2.7	2.0	2.5	1.1
7.....	4.8	8.8	43.9	36.6	19.1	21.5	8.5	4.0	3.0	2.0	2.2	1.1
8.....	4.4	10.8	44.2	30.9	16.9	18.6	7.6	3.9	2.9	1.9	2.1	1.6
9.....	4.9	14.2	43.5	24.9	15.1	16.3	10.9	4.0	2.5	1.7	1.9	2.0
10.....	5.1	21.5	43.5	20.3	13.7	14.6	17.2	4.0	2.4	1.6	1.8	2.6
11.....	5.6	28.5	42.9	18.0	12.5	13.3	19.5	3.5	2.3	1.6	2.0	2.9
12.....	5.8	30.1	40.2	17.0	11.0	12.3	18.2	3.1	2.0	1.5	2.0	2.8
13.....	5.6	27.7	35.5	17.1	10.4	12.8	16.7	3.3	2.0	1.4	1.7	2.6
14.....	5.3	23.0	30.4	17.5	9.9	12.4	17.3	2.7	2.0	1.6	1.6	2.5
15.....	4.9	19.2	25.7	17.5	9.1	11.2	17.2	3.2	1.9	1.8	1.6	2.4
16.....	4.8	16.5	22.5	16.9	8.5	10.6	15.6	3.0	1.8	1.7	1.5	2.9
17.....	4.8	13.8	20.4	16.0	8.0	8.9	13.9	2.3	1.7	1.5	1.5	2.0
18.....	4.8	11.8	18.5	15.1	7.7	7.5	12.5	2.1	1.6	1.4	1.4	1.9
19.....	4.4	10.8	17.1	14.5	8.1	6.5	10.6	2.0	1.5	1.3	1.4	1.8
20.....	4.8	9.3	16.2	13.9	10.1	6.7	9.1	2.1	1.5	1.3	1.6	1.8
21.....	6.0	8.2	15.9	13.3	12.6	6.6	7.8	3.3	1.5	2.0	1.6	1.8
22.....	7.0	8.0	16.3	12.6	15.4	6.5	6.5	3.0	1.4	2.4	1.5	1.7
23.....	10.5	9.6	20.3	11.9	19.5	7.5	5.9	2.8	1.4	2.2	1.5	1.6
24.....	28.5	14.0	29.1	11.4	20.8	8.6	5.5	3.0	1.3	1.9	1.4	1.6
25.....	37.5	18.3	32.0	10.9	19.3	8.8	5.1	2.9	1.3	1.6	1.3	1.8
26.....	42.3	20.9	32.5	11.7	17.5	8.9	4.6	2.7	1.2	1.4	1.3	1.8
27.....	44.5	21.0	35.5	14.9	16.5	9.2	4.4	3.1	1.2	1.3	1.3	2.0
28.....	43.2	19.4	36.4	23.0	16.5	7.6	4.1	3.6	1.2	1.3	1.3	4.4
29.....	37.9	17.5	36.3	30.6	16.8	7.4	4.4	4.2	1.1	1.3	1.3	9.9
30.....	29.7		35.9	31.5	17.0	8.5	4.4	4.3	1.1	1.5	1.3	16.0
31.....	21.4		34.0		18.0		4.3	4.3		2.9		18.2
Means.	13.6	15.8	30.4	21.7	16.6	12.6	10.4	3.4	2.0	1.6	1.8	3.2

## OHIO RIVER SYSTEM—OHIO RIVER, PORTSMOUTH, OHIO.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	10.9	12.0	22.0	20.1	12.8	7.6	8.3	12.0	6.1	2.5	3.2	37.5
2.....	9.8	10.9	20.9	19.2	11.6	7.4	10.9	11.0	5.5	2.4	4.2	33.4
3.....	9.0	10.3	27.1	18.6	10.5	7.5	11.3	9.4	5.3	2.3	4.2	28.4
4.....	7.1	9.8	33.0	18.6	9.8	6.8	10.3	8.0	4.9	2.2	3.8	23.6
5.....	5.4	9.1	33.5	18.6	8.9	6.8	9.1	7.4	4.7	2.0	3.7	21.4
6.....	4.9	8.9	32.0	18.0	8.8	7.8	8.3	6.8	4.5	2.1	3.9	23.3
7.....	5.4	9.9	29.5	17.2	8.5	9.0	7.6	6.1	4.1	2.1	5.3	26.4
8.....	5.6	11.9	28.7	16.7	8.2	8.9	7.0	5.5	3.7	2.0	5.8	26.2
9.....	5.6	16.8	30.6	16.3	8.0	8.0	6.4	4.9	3.6	2.1	5.3	26.5
10.....	6.0	23.0	33.5	15.8	8.4	7.4	6.2	4.4	3.5	2.2	4.7	25.7
11.....	6.7	28.0	33.9	15.3	9.3	7.6	6.3	4.0	3.3	2.4	4.2	23.7
12.....	8.1	31.1	32.3	15.2	9.5	7.8	6.6	3.7	3.2	2.3	3.9	20.8
13.....	11.2	32.6	29.5	15.5	9.8	7.4	7.3	3.5	2.9	2.3	4.0	18.3
14.....	16.4	34.5	26.0	15.3	9.5	7.0	7.5	3.2	2.6	2.4	3.8	16.2
15.....	19.1	35.5	23.3	14.5	8.5	7.0	6.9	3.0	2.4	2.3	3.6	14.5
16.....	21.6	35.8	20.9	13.8	7.9	7.2	7.5	3.0	2.4	2.3	3.7	12.9
17.....	21.5	34.0	18.9	13.0	7.7	7.7	8.3	5.6	2.4	2.2	3.9	11.7
18.....	19.8	31.5	17.3	12.4	7.6	10.5	8.0	5.3	2.3	2.0	3.9	10.5
19.....	19.3	28.0	16.4	11.9	7.8	14.9	7.4	5.0	4.4	2.0	3.8	9.5
20.....	22.5	23.8	19.7	11.7	9.9	16.3	6.6	4.6	5.1	2.3	3.9	9.0
21.....	28.0	19.9	28.3	12.8	12.7	15.0	6.3	4.5	4.7	2.5	4.8	8.5
22.....	29.3	17.4	32.8	14.8	12.8	14.8	6.6	4.9	3.4	2.5	6.3	7.6
23.....	29.8	18.8	32.8	15.6	11.8	13.8	6.7	5.7	2.7	2.6	9.5	7.1
24.....	30.0	21.9	31.7	17.2	10.4	11.9	6.7	6.7	2.7	2.5	10.7	7.4
25.....	30.0	25.5	29.0	18.0	9.2	10.2	6.9	6.8	2.6	2.5	10.5	7.8
26.....	28.2	25.9	26.0	17.5	8.3	8.9	7.5	6.4	2.4	6.9	18.6	7.8
27.....	25.3	25.5	23.4	16.6	7.7	7.8	10.8	6.3	2.3	12.2	30.5	7.7
28.....	21.7	24.4	21.7	15.7	7.8	7.0	11.0	7.5	2.5	9.5	37.0	7.7
29.....	18.9		21.1	14.8	8.4	7.5	11.9	7.2	2.7	7.1	38.5	7.8
30.....	16.4		21.2	13.8	8.2	7.6	11.8	6.5	2.7	5.5	38.9	7.7
31.....	14.1		20.9		7.8		12.2	6.3		4.0		7.8
Means.	16.4	22.0	26.4	15.8	9.3	9.2	8.3	6.0	3.5	3.3	9.6	16.3

## OHIO RIVER SYSTEM—OHIO RIVER, PORTSMOUTH, OHIO—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	11.2	12.2	6.4	29.7	42.5	39.3	18.0	5.3	13.3	6.4	3.7	14.3
2.....	12.2	11.8	6.2	27.1	35.5	31.9	16.8	5.2	12.7	7.7	3.6	12.8
3.....	11.2	11.5	6.4	24.4	28.3	33.8	16.0	5.1	11.4	8.0	3.5	11.4
4.....	10.4	12.0	5.8	25.5	22.6	29.8	15.0	4.7	11.4	7.6	3.4	10.3
5.....	9.6	15.8	5.5	33.9	18.6	25.7	14.0	4.7	10.9	7.2	3.3	9.5
6.....	8.8	18.3	8.5	37.8	16.4	23.1	13.4	4.7	10.1	6.3	3.3	9.8
7.....	8.2	18.9	15.0	37.4	15.1	21.4	14.0	4.7	10.0	5.5	3.3	11.0
8.....	8.4	16.9	19.8	36.7	14.5	20.7	14.3	5.3	10.2	5.6	3.2	13.5
9.....	8.2	14.9	20.4	36.6	14.4	25.0	13.6	12.0	9.8	5.8	3.2	14.0
10.....	7.8	14.5	19.1	36.9	14.8	24.5	13.0	13.3	8.9	5.8	3.2	12.8
11.....	7.4	14.3	18.6	36.4	15.0	22.0	12.5	10.4	7.8	5.5	3.1	11.4
12.....	7.8	13.8	23.7	34.1	15.3	19.8	11.4	8.1	6.9	5.3	3.1	10.3
13.....	15.1	13.6	30.0	30.2	16.8	18.1	10.2	6.8	6.1	5.0	3.2	10.8
14.....	23.5	12.6	34.3	25.8	19.0	16.8	9.1	6.1	6.3	4.9	3.2	14.0
15.....	27.0	11.8	35.8	22.6	20.0	15.8	8.6	8.5	6.5	4.8	3.1	22.8
16.....	27.5	10.3	35.1	21.4	19.4	15.7	8.1	9.8	6.5	4.5	3.1	31.1
17.....	25.6	9.9	32.8	23.6	17.8	17.0	8.7	11.3	6.6	5.0	3.1	36.7
18.....	23.0	9.4	30.0	24.2	16.4	23.5	10.8	11.4	8.1	5.6	3.1	38.9
19.....	20.0	9.0	26.7	24.1	14.8	26.7	10.3	10.9	11.8	5.2	3.6	38.6
20.....	17.5	8.9	23.7	36.4	13.9	25.8	10.5	10.2	13.0	4.4	7.4	36.0
21.....	15.9	8.5	20.9	45.6	13.1	23.0	10.3	10.5	13.8	4.1	8.2	31.0
22.....	14.3	8.1	18.9	51.6	15.1	19.7	9.8	10.0	13.0	4.0	6.6	24.4
23.....	12.8	7.9	18.6	55.1	24.5	18.6	10.1	10.0	12.2	4.0	5.9	19.3
24.....	11.8	7.6	20.3	57.3	32.8	32.5	9.8	10.9	11.2	4.0	5.8	15.8
25.....	11.5	7.2	21.8	58.3	34.6	38.9	9.3	11.3	10.0	3.9	6.0	13.5
26.....	11.8	6.6	22.3	58.4	30.3	37.8	9.5	11.4	8.8	3.7	6.4	13.5
27.....	12.2	6.5	23.3	57.9	28.3	34.3	8.4	11.8	7.7	3.7	7.4	14.5
28.....	13.2	6.5	25.3	56.0	28.3	29.5	6.6	11.3	7.2	3.7	8.5	20.5
29.....	13.6	.....	27.8	52.9	33.8	24.0	5.6	11.2	7.0	3.7	13.5	25.5
30.....	13.2	.....	29.9	48.4	37.7	20.1	5.3	11.4	6.6	3.6	15.3	30.0
31.....	12.8	.....	30.8	.....	39.8	.....	5.1	12.8	.....	3.6	.....	40.5
<b>Means.</b>	<b>14.0</b>	<b>11.4</b>	<b>21.4</b>	<b>38.2</b>	<b>22.8</b>	<b>25.3</b>	<b>10.9</b>	<b>9.1</b>	<b>9.5</b>	<b>5.1</b>	<b>5.1</b>	<b>20.0</b>
<b>1902</b>												
1.....	43.5	39.3	42.6	26.0	15.4	12.9	20.0	13.1	3.6	3.0	4.1	14.5
2.....	41.9	36.4	48.4	26.0	14.8	12.6	22.4	13.0	3.3	4.0	3.9	13.9
3.....	37.9	32.5	50.3	25.8	13.8	11.5	24.4	14.5	3.3	4.3	4.2	13.5
4.....	32.3	29.0	50.3	24.9	12.2	10.5	25.2	14.6	3.2	4.3	3.9	14.1
5.....	25.8	26.2	49.8	23.6	11.8	8.9	25.4	13.9	3.2	4.7	3.8	14.6
6.....	21.3	22.6	49.0	22.6	11.7	7.7	25.7	13.0	3.2	5.1	3.7	15.6
7.....	17.3	19.5	47.3	22.6	11.5	7.3	26.9	12.0	3.1	5.8	3.8	16.4
8.....	14.8	17.4	43.3	23.0	11.4	6.8	26.7	11.2	3.0	6.0	3.8	17.1
9.....	13.4	15.2	41.3	24.1	11.5	7.2	24.7	10.4	3.0	6.8	3.8	17.1
10.....	12.4	13.3	41.8	27.1	11.4	7.3	22.0	9.7	3.0	8.4	3.8	16.2
11.....	11.5	11.7	41.7	32.8	11.5	7.1	19.8	9.1	3.1	8.0	3.8	14.8
12.....	11.2	10.8	39.5	38.3	11.4	7.0	18.8	8.0	3.1	6.9	3.7	13.6
13.....	10.8	10.2	38.3	41.4	11.3	7.1	19.8	8.0	3.0	6.6	3.7	17.1
14.....	10.7	9.3	37.9	41.9	10.7	7.5	21.9	8.1	3.0	6.4	3.7	26.0
15.....	9.9	8.3	37.6	40.9	9.8	7.2	21.8	7.7	2.9	7.6	3.6	30.9
16.....	9.4	7.7	37.3	38.9	9.2	8.2	19.4	7.3	3.1	9.8	3.5	38.8
17.....	8.9	7.4	37.3	34.3	8.6	9.0	16.6	6.9	3.1	11.7	3.3	42.4
18.....	8.2	7.2	37.3	29.3	7.8	9.2	13.9	6.8	2.9	11.3	3.5	43.3
19.....	7.8	7.3	36.6	24.6	8.1	8.8	11.0	6.4	2.8	10.1	3.6	41.8
20.....	7.5	7.1	34.2	21.0	8.0	9.3	11.0	5.9	2.7	8.6	3.6	39.6
21.....	7.4	6.9	30.9	19.0	7.5	10.0	10.7	5.5	2.7	7.3	4.0	36.2
22.....	7.6	6.8	27.6	17.4	7.4	9.3	12.4	5.2	2.6	7.3	4.1	32.2
23.....	8.2	7.0	24.1	16.4	7.4	9.8	12.4	5.1	2.6	7.1	4.7	27.8
24.....	9.3	7.4	21.3	15.5	8.3	9.5	12.4	5.0	2.6	6.6	5.3	24.5
25.....	9.6	8.3	18.8	14.8	11.5	8.9	13.5	4.9	2.5	6.1	5.4	23.5
26.....	9.5	20.7	17.1	14.1	15.5	9.1	15.1	4.8	2.5	5.6	7.3	24.4
27.....	14.0	32.4	15.8	13.2	17.5	12.9	15.4	4.8	3.0	5.2	11.3	24.3
28.....	26.0	36.8	14.8	12.5	17.9	12.8	14.7	4.6	3.0	4.8	14.0	22.4
29.....	33.3	.....	14.3	12.0	16.0	15.8	14.0	4.3	2.9	4.6	13.8	19.9
30.....	32.4	.....	20.5	15.8	14.0	18.3	14.1	4.1	2.9	4.5	12.8	19.1
31.....	37.6	.....	24.3	.....	12.9	.....	13.8	3.8	.....	4.3	.....	20.1
<b>Means.</b>	<b>17.8</b>	<b>16.6</b>	<b>34.6</b>	<b>24.7</b>	<b>11.5</b>	<b>9.6</b>	<b>18.3</b>	<b>8.1</b>	<b>3.0</b>	<b>6.5</b>	<b>5.2</b>	<b>23.7</b>

\*50.4 at 5 p. m.

## OHIO RIVER SYSTEM—OHIO RIVER, PORTSMOUTH, OHIO—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	20.0	29.0	38.6	27.8	18.7	12.6	14.8	6.7	9.4	3.6	3.9	6.6
2.....	18.2	36.3	47.0	26.9	16.6	14.2	14.0	6.4	12.7	3.3	3.9	6.0
3.....	19.5	39.3	50.1	25.6	15.0	12.6	14.3	5.9	12.4	3.3	3.8	5.8
4.....	26.3	40.6	51.3	24.0	13.8	11.4	15.3	5.9	12.9	3.3	3.8	5.6
5.....	31.8	43.6	50.8	23.2	12.8	10.4	14.3	6.8	12.9	3.1	3.7	5.3
6.....	34.5	46.8	48.3	23.2	12.2	9.1	12.8	8.2	11.8	3.2	3.6	5.0
7.....	35.5	47.7	44.4	23.8	11.6	9.9	11.6	7.5	10.3	3.0	3.3	4.8
8.....	34.5	46.9	41.1	24.9	11.2	11.2	10.9	6.8	8.8	3.2	3.3	4.6
9.....	31.6	44.8	40.6	32.4	10.6	13.2	10.8	6.3	7.6	3.3	3.3	4.6
10.....	27.6	41.1	42.4	35.9	10.2	14.5	13.3	5.8	6.6	3.3	3.3	4.7
11.....	22.8	35.9	44.9	35.5	9.9	14.3	13.5	5.5	5.8	3.6	3.4	4.5
12.....	20.3	30.7	47.0	33.1	9.6	12.2	12.0	5.3	5.5	4.4	3.5	6.5
13.....	19.6	27.4	48.0	31.8	9.1	10.8	10.6	5.0	5.2	9.3	3.4	5.9
14.....	20.1	25.6	48.3	32.4	8.4	11.0	9.5	5.3	5.3	11.3	3.3	4.7
15.....	18.7	25.4	46.3	36.3	7.4	10.8	9.4	5.4	5.8	10.8	3.5	4.1
16.....	16.4	33.4	43.3	40.5	7.6	9.9	9.7	5.1	6.1	9.5	3.6	3.7
17.....	15.8	42.8	38.9	<sup>a</sup> 43.3	7.6	9.6	10.3	4.9	5.9	8.2	3.7	3.3
18.....	15.8	47.3	34.3	43.3	7.3	9.0	10.8	4.8	5.8	7.2	4.4	4.2
19.....	15.0	<sup>b</sup> 47.3	29.5	40.9	7.2	10.7	10.4	4.7	5.8	6.4	4.8	4.1
20.....	14.4	45.3	25.6	37.8	6.8	11.7	9.6	4.5	5.7	5.8	4.5	4.4
21.....	13.8	40.8	23.1	34.9	6.6	11.3	8.6	4.3	6.3	5.5	10.4	4.7
22.....	13.8	33.8	22.5	31.6	6.3	10.3	7.8	4.0	5.8	5.3	16.0	6.0
23.....	14.6	27.8	23.6	27.8	6.0	9.4	8.4	4.0	4.9	5.3	15.6	5.8
24.....	15.2	23.7	28.0	24.4	6.0	10.0	11.0	3.8	4.8	5.4	13.8	7.8
25.....	15.4	21.8	37.4	21.7	5.9	10.8	12.5	3.7	4.8	5.4	12.0	8.5
26.....	15.4	20.8	40.2	20.3	6.3	12.7	12.3	3.8	4.8	5.4	10.5	10.5
27.....	15.5	20.3	39.1	20.6	8.3	15.1	11.4	3.8	4.6	5.3	9.4	12.8
28.....	15.6	25.8	36.5	20.6	10.3	16.5	10.1	3.6	4.4	5.0	8.3	12.0
29.....	16.7		32.2	21.9	10.8	16.7	8.7	3.4	4.1	4.7	7.5	11.4
30.....	18.1		27.8	20.8	10.8	15.5	7.8	3.8	3.8	4.3	7.0	11.3
31.....	22.7		27.0		11.8		7.2	3.8		4.1		11.4
Means.	20.5	35.4	38.6	29.6	9.8	11.9	11.1	5.1	7.0	5.3	6.2	6.5
<b>1904</b>												
1.....	10.5	19.8	18.4	36.8	32.5	20.0	10.5	5.4	5.3	2.0	4.2	2.4
2.....	9.6	16.3	19.2	38.8	32.1	19.6	12.5	5.8	5.1	1.9	4.3	2.3
3.....	8.9	14.4	25.2	31.4	30.6	20.0	14.0	6.3	4.7	1.9	3.9	2.3
4.....	8.3	13.0	32.5	35.3	28.3	22.0	13.2	5.8	4.5	1.9	3.8	2.2
5.....	7.7	12.0	37.2	40.2	25.8	24.4	12.2	5.3	4.3	2.0	3.8	2.2
6.....	7.3	11.4	41.3	41.8	23.5	24.4	11.3	5.3	4.0	2.8	3.7	2.2
7.....	6.9	10.8	44.0	39.4	20.8	23.0	10.0	5.4	3.9	3.3	3.5	2.2
8.....	6.2	12.6	45.3	34.6	18.4	20.3	9.3	5.2	4.1	3.3	3.3	2.2
9.....	6.1	15.5	44.4	28.7	16.5	17.6	10.8	5.2	3.9	3.2	3.0	2.8
10.....	6.5	20.8	43.8	23.7	15.0	15.7	16.4	5.4	3.8	3.1	2.8	3.4
11.....	6.8	27.4	43.5	20.4	13.8	14.3	21.0	5.2	3.6	2.9	2.7	3.7
12.....	7.3	30.1	41.9	18.6	12.5	13.3	20.5	4.5	3.3	2.9	2.8	3.8
13.....	7.3	29.0	38.4	18.2	11.6	13.0	18.4	4.4	3.3	2.8	2.8	3.7
14.....	7.3	25.4	33.8	18.4	11.1	13.3	17.8	4.3	3.2	2.8	2.7	3.5
15.....	7.2	21.8	28.5	18.4	10.7	12.4	18.0	4.3	3.3	2.9	2.6	3.5
16.....	6.8	18.3	24.8	18.0	10.1	11.8	16.9	4.5	3.1	3.1	2.5	3.8
17.....	6.8	15.5	22.0	17.2	9.5	10.8	15.1	4.2	3.0	3.0	2.4	3.8
18.....	7.8	13.4	20.2	16.4	9.3	9.3	13.7	3.7	2.8	2.9	2.4	3.1
19.....	9.8	12.2	18.8	15.5	9.0	8.5	12.3	3.6	2.8	2.8	2.4	2.8
20.....	10.2	11.1	17.6	14.9	10.0	7.8	10.9	3.6	2.8	2.8	2.6	3.1
21.....	9.5	10.3	17.4	14.3	12.1	8.0	9.7	3.9	2.7	2.9	2.6	2.6
22.....	9.7	9.8	17.6	13.8	14.8	8.1	8.3	4.5	2.7	3.3	2.7	2.4
23.....	12.6	11.7	22.0	13.1	18.1	8.8	7.5	4.3	2.6	3.6	2.6	2.3
24.....	25.5	14.6	29.5	12.5	20.8	9.7	7.0	4.2	2.5	3.4	2.5	2.3
25.....	35.8	19.3	33.0	12.2	20.1	9.9	6.5	4.3	2.4	3.1	2.5	2.3
26.....	41.8	21.8	33.8	12.5	18.6	10.2	6.2	4.0	2.3	2.9	2.4	2.4
27.....	<sup>c</sup> 44.4	22.3	37.6	16.0	17.2	10.3	5.8	4.2	2.3	2.8	2.4	2.6
28.....	43.8	21.0	38.9	21.8	16.8	9.8	5.6	4.7	2.2	2.8	2.4	4.1
29.....	40.4	19.5	39.3	30.0	17.0	8.8	5.6	5.1	2.2	2.7	2.5	6.8
30.....	33.8		39.3	32.2	17.3	9.3	5.8	5.4	2.1	2.7	2.4	14.8
31.....	25.5		37.5		18.7		5.8	5.4		2.5		17.5
Means.	15.4	17.3	31.8	23.3	17.5	13.8	11.6	4.8	3.3	2.8	2.9	3.8

<sup>a</sup> 43.5 at 4 p. m.<sup>b</sup> 47.7 at 3 a. m.<sup>c</sup> 44.5 at 11 a. m.

## DESCRIPTION OF RIVER GAGES, ETC.

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## OHIO RIVER SYSTEM—OHIO RIVER, MAYSVILLE, KY.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1										2.3	2.9	2.5
2										2.3	3.9	2.5
3										2.3	4.1	2.4
4										2.2	3.9	2.4
5										2.2	3.7	2.3
6										2.3	3.7	2.3
7										2.7	3.6	2.3
8										3.2	3.4	2.3
9										3.3	3.2	2.3
10										3.2	3.0	2.7
11										3.1	2.9	3.2
12										3.0	2.8	3.6
13										2.9	2.7	3.7
14										2.9	2.8	3.7
15										2.9	2.7	3.5
16										2.9	2.6	3.3
17										3.0	2.6	3.8
18										3.0	2.5	3.8
19										2.9	2.5	3.4
20										2.9	2.5	2.7
21										2.8	2.6	3.0
22										2.9	2.6	2.3
23										3.3	2.7	2.3
24										3.4	2.6	2.2
25										3.3	2.6	2.2
26										3.1	2.5	2.2
27										3.0	2.5	2.6
28										2.8	2.5	2.9
29										2.8	2.5	4.3
30										2.7	2.5	9.5
31										2.7		15.5
Means.										2.8	2.9	3.5

## OHIO RIVER SYSTEM—OHIO RIVER, CINCINNATI, OHIO.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1	14.6	17.5	26.6	20.2	16.0	10.5	9.3	13.7	7.7*	3.7	6.8	40.0
2	14.2	15.3	25.5	22.7	15.0	10.4	9.4	14.2	7.5	3.7	5.7	38.6
3	12.8	13.5	24.4	21.6	14.0	10.6	10.6	14.3	7.2	3.7	4.9	35.0
4	10.7	12.2	28.5	21.0	13.0	9.6	12.0	13.6	6.8	3.6	5.0	30.0
5	9.0	11.7	33.1	20.7	12.0	9.1	12.1	10.8	6.5	3.5	5.2	27.0
6	8.3	11.6	35.2	20.4	10.9	8.5	11.2	9.5	6.2	3.4	5.0	24.5
7	7.7	11.2	36.8	20.1	10.5	8.6	10.2	8.8	5.9	3.4	4.8	24.4
8	7.6	12.2	35.0	19.5	10.0	9.4	9.6	8.1	5.7	3.4	5.0	27.5
9	7.4	21.2	32.0	18.9	10.5	10.5	8.9	7.5	5.4	3.4	6.0	28.0
10	7.3	23.0	32.8	18.4	10.6	10.0	8.2	6.9	5.1	3.3	6.6	28.1
11	7.3	25.9	34.7	17.5	10.1	9.4	7.8	6.2	4.9	3.3	6.4	27.7
12	11.4	29.4	35.3	17.3	10.0	9.0	7.4	5.8	4.7	3.3	6.1	26.1
13	12.5	32.9	33.8	17.2	10.7	9.0	7.6	5.4	4.6	3.3	5.5	23.6
14	13.2	35.2	31.3	16.5	10.9	9.0	7.9	5.1	4.4	3.4	5.0	21.9
15	16.4	36.2	28.7	17.0	10.9	9.0	8.5	4.9	4.1	3.4	5.0	19.0
16	20.0	37.2	26.3	16.5	10.5	8.4	8.5	4.9	3.9	3.5	5.0	17.6
17	22.4	37.3	23.8	16.0	10.0	8.4	8.2	5.5	3.7	3.5	4.7	15.5
18	23.1	35.7	21.8	15.7	9.3	8.4	9.0	5.4	3.6	3.4	4.8	14.1
19	22.2	33.3	20.0	15.3	9.3	9.5	9.4	6.5	3.5	3.3	4.8	12.8
20	21.9	30.1	19.4	14.5	9.1	13.6	9.1	6.7	3.5	3.2	4.9	11.6
21	28.9	26.7	22.1	13.9	9.6	16.8	9.0	6.5	4.7	3.1	8.0	10.8
22	31.2	24.0	29.4	14.1	12.2	16.7	8.2	6.2	5.8	3.2	10.4	10.3
23	31.8	22.9	33.7	15.6	13.9	16.1	7.8	6.0	5.9	3.5	8.6	9.6
24	31.8	22.6	34.2	16.9	13.7	15.6	8.0	6.3	5.0	3.6	9.6	9.2
25	31.7	24.3	33.2	18.3	12.6	14.5	8.0	7.0	4.2	3.7	14.9	8.6
26	31.4	26.9	31.4	18.3	11.4	12.9	8.7	8.5	3.9	3.7	18.0	7.8
27	29.8	27.8	28.8	18.6	10.3	11.3	9.3	8.5	3.8	3.7	23.0	9.0
28	27.5	27.4	26.3	18.5	10.1	10.2	11.3	7.9	3.7	9.5	32.5	9.0
29	24.9		24.6	17.3	9.5	9.3	13.0	8.0	3.6	11.4	37.9	9.0
30	21.7		23.8	16.8	9.7	9.3	13.2	8.4	3.6	9.5	39.0	9.1
31	19.4		23.4		10.4		13.3	8.2		8.2		9.3
Means.	18.7	24.5	28.9	17.8	11.2	10.8	9.5	7.9	5.0	4.3	10.3	19.2

\* 15.7 at 1 p.m.

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—OHIO RIVER, CINCINNATI, OHIO—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	10.9	14.6	8.2	31.7	51.2	40.0	23.8	6.7	12.9	8.1	4.7	15.4
2.....	12.5	14.0	8.1	31.1	46.0	40.0	21.2	6.4	14.2	7.9	4.7	15.9
3.....	14.4	13.5	8.0	29.0	40.0	38.4	19.8	6.4	14.0	7.8	4.6	15.0
4.....	14.0	14.7	7.9	26.9	33.3	36.2	17.8	6.3	12.9	8.7	4.8	13.3
5.....	12.8	15.7	7.7	28.1	27.4	32.3	17.0	6.3	12.6	8.9	4.7	12.3
6.....	11.9	16.6	7.7	34.6	23.0	31.4	16.3	5.9	12.2	8.6	4.6	11.1
7.....	11.0	19.7	7.6	38.0	20.0	29.2	15.0	5.8	11.6	8.1	4.5	10.7
8.....	10.4	20.9	12.7	38.3	17.5	25.2	15.2	5.8	11.0	7.4	4.4	11.3
9.....	9.9	19.9	19.0	37.8	16.7	23.4	15.7	5.9	9.9	6.8	4.3	13.2
10.....	9.8	18.5	22.3	37.7	16.4	25.4	15.2	7.6	10.9	6.8	4.3	15.2
11.....	9.6	17.3	25.0	37.7	16.3	26.0	14.7	12.8	10.5	6.9	4.2	15.1
12.....	9.7	16.3	23.2	37.2	16.7	24.4	14.3	12.7	9.8	6.7	4.2	13.6
13.....	10.7	15.8	25.2	35.2	16.9	22.5	13.3	10.8	8.9	6.6	4.2	12.5
14.....	14.0	15.6	30.8	32.3	17.8	21.5	12.2	9.1	8.1	6.3	4.4	12.2
15.....	23.0	15.2	34.5	28.9	20.4	19.9	11.1	7.7	7.7	6.1	4.2	15.0
16.....	27.8	14.3	36.4	25.8	21.0	18.2	10.2	7.8	7.4	6.0	4.3	23.5
17.....	28.8	13.1	36.0	23.9	21.1	17.7	9.6	9.4	7.4	5.9	4.3	32.4
18.....	27.8	12.2	34.2	24.8	20.2	18.9	9.4	11.0	7.5	5.7	4.2	37.4
19.....	25.8	11.7	31.5	26.3	19.0	23.3	10.5	12.0	8.0	5.5	4.2	38.3
20.....	23.5	11.3	29.3	31.1	17.3	27.0	11.4	12.0	10.4	6.4	4.2	39.5
21.....	20.8	10.8	26.4	40.7	16.0	27.4	11.4	11.6	13.5	6.2	5.0	36.6
22.....	18.8	10.5	24.0	47.9	16.6	25.4	11.4	11.0	14.7	5.8	8.2	32.7
23.....	17.8	10.1	21.8	53.2	19.0	22.9	11.1	11.2	14.6	5.4	8.5	27.8
24.....	15.4	10.0	20.7	56.4	26.7	21.6	10.8	11.0	13.9	5.2	7.9	23.0
25.....	14.3	9.3	21.5	58.4	34.0	31.9	10.8	11.4	12.9	5.1	7.4	19.2
26.....	13.5	9.0	23.2	59.5	35.9	37.9	10.5	11.9	11.9	5.0	7.0	16.5
27.....	13.3	8.5	24.0	59.7	33.0	38.3	10.4	12.1	10.7	5.0	7.1	15.6
28.....	13.5	8.3	24.8	59.2	29.7	36.1	10.3	12.5	9.7	5.0	7.3	16.2
29.....	14.3		26.5	57.7	30.1	32.4	10.3	12.4	9.0	4.9	8.7	19.6
30.....	15.0		29.0	55.0	34.2	27.9	8.1	12.1	8.5	4.8	11.4	26.2
31.....	15.0		30.9		38.0		7.4	12.2		4.8		32.0
<b>Means.</b>	<b>15.8</b>	<b>13.8</b>	<b>22.2</b>	<b>39.5</b>	<b>25.5</b>	<b>28.1</b>	<b>13.1</b>	<b>9.6</b>	<b>10.9</b>	<b>6.4</b>	<b>5.6</b>	<b>20.6</b>
<b>1902</b>												
1.....	39.0	40.1	39.6	26.0	17.0	14.5	22.6	14.9	5.7	4.4	5.7	15.2
2.....	42.7	41.7	44.8	28.0	17.3	14.1	22.1	14.6	5.5	4.6	5.5	15.2
3.....	44.0	39.5	48.6	28.2	16.9	13.8	23.8	14.3	5.0	4.7	5.4	18.0
4.....	39.4	36.5	50.4	27.8	16.1	13.2	25.1	14.7	4.8	5.2	5.3	18.3
5.....	36.0	32.9	50.9	26.9	14.5	12.2	25.9	15.7	4.5	5.7	5.3	16.0
6.....	29.3	29.2	50.7	25.8	13.3	11.0	26.3	15.6	4.5	5.9	5.3	15.9
7.....	24.9	25.9	50.0	24.9	13.0	9.8	26.7	14.7	4.4	6.0	5.2	16.0
8.....	21.5	22.8	48.5	24.4	12.8	9.6	27.5	13.9	4.4	6.4	5.0	17.9
9.....	17.7	20.1	47.2	24.5	12.5	9.2	27.5	12.8	4.4	6.9	5.0	19.0
10.....	16.4	18.0	48.8	25.5	12.5	8.8	26.1	12.1	4.4	7.2	5.0	19.3
11.....	14.5	15.9	45.5	28.0	12.5	8.8	23.9	11.5	4.3	8.0	5.0	18.5
12.....	12.9	14.2	44.7	33.3	12.4	8.3	21.9	11.0	4.2	9.1	5.0	17.9
13.....	12.1	13.1	43.0	38.2	12.4	8.0	19.1	10.5	4.4	9.1	5.0	20.0
14.....	11.4	12.0	41.8	41.2	12.4	8.0	19.9	9.3	4.3	8.4	4.9	23.5
15.....	12.5	11.0	41.0	42.2	12.2	8.0	21.9	9.2	4.3	7.9	4.9	28.5
16.....	11.6	10.3	40.0	41.4	11.5	8.1	22.7	9.1	4.3	7.8	4.9	40.5
17.....	11.0	9.9	39.5	39.3	10.7	8.7	20.9	8.8	4.2	9.0	5.0	45.5
18.....	10.8	9.4	39.2	36.0	10.2	9.3	18.4	8.4	4.2	11.2	5.1	47.0
19.....	10.0	9.1	39.1	31.8	9.6	9.7	16.6	8.1	4.2	12.3	5.3	46.6
20.....	9.5	9.0	38.4	27.8	9.2	9.9	14.7	7.8	4.2	11.8	5.2	45.0
21.....	9.1	9.0	36.5	24.3	10.0	10.6	13.2	7.5	4.2	10.8	5.0	42.9
22.....	8.9	8.6	33.3	21.8	9.0	10.9	12.9	7.1	4.1	9.0	5.0	40.5
23.....	8.8	8.4	30.3	19.6	9.1	9.8	12.6	6.8	4.0	8.8	5.2	36.5
24.....	9.2	8.6	27.2	18.3	15.6	10.4	13.6	6.0	3.9	8.1	5.4	32.2
25.....	9.8	11.0	24.4	16.5	14.4	10.3	13.3	5.9	3.9	7.8	6.4	29.8
26.....	10.2	14.1	21.8	16.2	16.2	10.4	14.1	5.9	4.0	7.7	9.1	26.4
27.....	14.2	22.5	19.8	16.0	17.8	11.0	15.0	5.9	4.0	7.4	9.5	26.1
28.....	19.8	33.8	18.2	15.0	18.3	12.4	16.1	5.9	4.1	7.0	10.5	26.3
29.....	28.5		16.4	14.4	19.0	17.7	16.1	5.9	4.2	6.7	14.3	25.0
30.....	34.4		16.6	16.7	18.2	22.0	15.7	5.8	4.3	6.2	15.5	23.0
31.....	36.0		20.8		16.4		15.2	5.8		5.9		22.0
<b>Means.</b>	<b>19.9</b>	<b>19.2</b>	<b>37.2</b>	<b>26.7</b>	<b>13.6</b>	<b>11.0</b>	<b>19.4</b>	<b>9.9</b>	<b>4.4</b>	<b>7.6</b>	<b>6.3</b>	<b>26.9</b>

## OHIO RIVER SYSTEM—OHIO RIVER, CINCINNATI, OHIO—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	21.8	23.2	38.0	31.5	23.0	13.3	17.1	9.1	5.1	5.5	5.9	8.6
2.....	23.0	34.5	44.4	31.2	22.1	14.0	16.4	8.1	5.4	5.3	5.8	8.2
3.....	25.8	39.1	49.0	30.3	20.1	14.7	15.6	7.9	10.9	4.9	5.2	8.1
4.....	27.9	44.4	51.6	29.2	17.8	15.9	15.3	7.7	13.2	4.8	5.2	7.5
5.....	29.8	47.1	<sup>a</sup> 53.1	28.0	16.0	16.0	16.1	7.6	13.7	4.7	5.2	7.3
6.....	33.9	47.6	52.9	26.9	15.2	15.4	16.0	7.7	14.3	4.6	5.0	6.9
7.....	36.0	48.7	51.0	26.4	14.5	14.5	14.9	8.4	13.8	4.5	5.0	6.8
8.....	37.0	49.4	50.4	26.4	13.1	14.5	13.7	9.0	12.4	4.9	4.9	6.4
9.....	36.4	48.9	50.0	30.3	12.7	13.9	12.5	9.0	11.1	5.0	4.8	6.0
10.....	33.6	46.9	47.6	33.0	12.3	14.7	12.0	8.2	10.0	4.9	4.7	6.0
11.....	31.4	43.7	49.2	37.5	11.7	15.9	11.9	7.6	8.9	4.8	4.5	5.9
12.....	28.6	39.7	49.5	37.9	11.5	15.9	14.4	7.2	8.0	4.8	4.5	5.8
13.....	24.7	35.2	49.8	38.1	11.1	14.7	14.1	6.8	7.0	4.8	4.5	5.8
14.....	22.8	32.6	50.2	37.3	10.9	13.2	13.3	6.5	6.8	6.2	4.5	7.5
15.....	21.6	30.3	50.1	36.4	10.3	12.3	11.5	6.4	6.6	10.3	4.5	7.3
16.....	20.8	36.1	48.6	38.9	9.9	11.9	10.6	6.5	6.6	11.7	4.5	9.1
17.....	19.1	41.7	46.3	42.0	9.0	11.6	10.5	6.5	7.0	11.3	4.9	8.1
18.....	17.8	46.7	43.3	44.2	8.8	11.5	10.5	6.5	7.2	10.3	4.9	8.0
19.....	16.1	49.0	39.1	44.4	8.7	10.3	11.4	6.3	7.2	9.4	5.2	7.8
20.....	15.5	49.4	35.7	43.0	8.7	10.6	11.6	6.2	7.0	8.9	5.4	7.4
21.....	15.0	47.9	30.9	40.6	8.4	11.9	11.1	6.0	7.0	7.7	6.1	12.2
22.....	14.7	44.2	27.9	38.2	10.1	12.4	11.1	5.9	7.0	7.2	6.4	10.7
23.....	14.7	38.5	26.2	35.3	9.1	12.0	10.0	5.6	7.2	6.9	14.5	9.7
24.....	15.2	32.9	26.4	32.0	8.0	11.2	9.3	5.3	7.1	6.6	16.5	10.0
25.....	16.0	29.8	30.2	28.5	7.6	10.8	10.3	5.2	6.5	6.2	16.4	10.8
26.....	16.6	26.5	37.9	25.9	8.0	11.1	12.4	5.2	6.2	6.3	14.3	13.6
27.....	17.2	25.2	40.6	24.1	7.9	12.0	13.4	5.1	6.0	6.7	13.1	15.4
28.....	17.6	31.4	40.6	23.3	9.9	15.0	13.1	5.1	6.0	6.7	11.3	17.8
29.....	20.8		38.4	22.8	10.5	17.3	12.1	5.0	6.0	6.5	10.6	<sup>b</sup> 22.8
30.....	22.3		35.1	23.4	13.4	17.7	10.9	5.1	5.7	6.3	9.7	15.0
31.....	22.8		32.5		13.3		9.9	5.1		6.0		14.3
Means.	23.1	39.7	42.5	32.9	12.1	13.5	12.7	6.7	8.2	6.6	7.3	9.6
<b>1904</b>												
1.....	12.6	29.1	22.7	44.3	33.1	22.3	10.5	7.1	6.5	3.6	4.1	3.7
2.....	12.2	24.0	21.8	42.8	33.9	23.7	11.1	7.2	6.8	3.5	4.1	3.7
3.....	11.4	19.5	21.4	39.9	33.8	22.4	12.8	7.0	6.8	3.4	5.2	3.7
4.....	10.7	17.5	27.0	37.0	32.7	22.4	14.5	7.2	6.5	3.4	5.5	3.7
5.....	11.6	15.5	34.2	38.0	30.7	23.3	15.1	7.3	6.3	3.4	5.4	3.7
6.....	13.3	14.3	38.2	41.0	28.4	25.1	14.3	7.2	6.1	3.3	5.1	3.6
7.....	12.3	15.0	42.0	42.1	26.8	26.0	13.3	7.0	5.8	3.3	5.0	3.5
8.....	12.3	17.6	44.8	40.8	24.9	24.9	12.5	6.9	5.6	3.8	4.9	3.5
9.....	13.5	17.6	45.9	37.4	23.2	23.0	11.9	6.8	5.4	4.3	4.8	3.5
10.....	12.3	17.8	45.6	32.8	20.4	21.5	12.3	6.7	5.2	4.2	4.8	3.4
11.....	11.8	21.0	45.2	28.0	17.2	19.0	15.8	6.7	5.1	4.6	4.4	3.5
12.....	12.1	27.0	44.7	24.9	16.3	17.0	21.5	6.7	5.0	4.5	4.3	4.2
13.....	13.1	30.2	43.2	22.2	15.2	15.8	22.3	6.9	4.9	4.3	4.2	4.6
14.....	13.3	30.0	40.4	21.0	14.2	14.8	20.9	6.5	4.9	4.2	4.1	4.8
15.....	13.5	27.3	36.2	20.8	12.7	14.8	20.2	6.5	4.9	4.2	4.1	4.8
16.....	13.5	24.3	31.8	20.4	12.2	14.5	19.2	5.9	4.9	4.2	4.0	4.6
17.....	13.2	21.4	28.1	20.2	12.1	13.8	18.5	5.7	4.7	4.2	4.0	5.0
18.....	13.6	19.9	25.3	19.6	11.5	13.0	17.5	5.5	4.6	4.2	4.0	5.3
19.....	13.4	17.6	23.4	18.9	11.0	11.8	16.6	5.4	4.6	4.3	4.0	5.3
20.....	13.0	15.0	22.1	17.8	10.7	10.7	14.9	5.4	4.6	4.4	3.9	4.9
21.....	15.2	13.0	20.9	17.6	10.9	9.9	13.7	5.7	4.5	4.4	3.8	4.3
22.....	23.7	16.0	19.7	16.5	12.2	9.7	12.1	5.8	4.2	4.3	3.8	4.1
23.....	22.5	16.2	27.8	16.0	15.0	9.7	10.8	5.8	4.1	4.2	3.7	4.4
24.....	20.3	16.0	28.6	15.6	18.2	9.8	9.8	5.7	4.1	4.3	4.0	4.0
25.....	26.9	16.5	32.4	14.8	21.3	10.3	9.0	5.9	4.1	4.9	3.8	4.0
26.....	36.0	20.0	41.2	16.4	21.9	11.0	8.5	5.8	4.0	4.9	3.8	3.7
27.....	41.4	22.6	45.7	18.0	20.8	11.3	8.0	5.8	3.9	4.6	3.8	4.3
28.....	<sup>c</sup> 43.6	23.9	44.4	19.7	19.8	11.7	7.7	5.9	3.8	4.2	3.7	5.5
29.....	43.5	23.4	43.3	23.2	18.7	11.8	7.5	5.7	3.7	4.2	3.7	5.0
30.....	40.2		42.3	30.3	18.8	11.2	7.2	5.8	3.7	4.2	3.7	5.6
31.....	36.0		43.3		23.0		7.1	6.2		4.1		11.8
Means.	19.4	20.3	34.6	26.6	20.1	16.2	13.5	6.3	5.0	3.8	4.2	4.5

<sup>a</sup> Maximum stage, 53.2.<sup>b</sup> Rise due to gorges below city.<sup>c</sup> Maximum stage, 43.9.

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—OHIO RIVER, MADISON, IND.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	12.9	15.9	23.4	20.1	14.7	11.3	8.7	12.7	7.5	3.5	7.8	34.1
2.....	12.2	14.5	23.2	19.8	13.9	12.0	8.7	12.9	7.2	3.5	6.8	32.8
3.....	11.5	13.1	22.3	19.1	13.1	11.7	8.8	12.7	7.0	3.7	5.8	30.8
4.....	11.0	12.4	22.2	18.6	12.3	11.4	9.5	13.5	6.7	3.7	5.2	27.9
5.....	10.3	11.5	25.8	18.0	11.5	10.1	10.5	13.0	6.4	3.6	4.9	24.9
6.....	9.1	11.1	29.0	17.7	10.8	9.3	10.6	12.4	6.0	3.4	4.9	22.3
7.....	8.3	10.9	31.7	17.5	10.1	9.1	10.1	9.8	5.9	3.4	4.8	21.2
8.....	8.1	11.8	30.8	17.1	9.8	9.2	9.4	8.4	5.7	3.9	4.8	22.4
9.....	8.2	17.9	28.6	16.5	9.9	9.3	8.8	7.7	5.4	3.8	4.6	23.7
10.....	8.1	22.0	27.5	16.0	10.4	9.7	8.2	7.2	5.0	3.6	5.0	23.8
11.....	8.0	22.7	28.4	15.6	10.0	9.5	7.7	6.7	4.7	3.5	5.7	23.7
12.....	10.6	24.4	29.3	15.4	9.6	9.0	7.3	6.2	4.7	3.4	5.9	22.9
13.....	13.0	26.7	29.1	15.2	9.5	8.6	7.0	5.8	4.7	3.3	5.7	21.4
14.....	13.1	28.8	27.7	15.1	9.7	8.4	7.0	5.5	4.4	3.3	5.2	19.6
15.....	13.4	30.2	25.8	15.0	9.9	8.4	7.2	5.2	4.2	3.3	4.9	18.8
16.....	15.5	31.2	23.8	15.0	9.9	8.3	7.5	5.2	4.0	3.3	4.7	16.2
17.....	17.8	31.4	21.7	14.7	9.7	8.1	7.7	5.7	3.8	3.2	4.7	14.8
18.....	19.4	30.5	20.0	15.4	9.1	8.0	7.7	5.9	3.6	3.2	4.6	13.7
19.....	19.7	29.0	18.6	15.1	8.7	8.3	8.0	6.0	3.5	3.2	4.6	12.6
20.....	19.9	27.0	17.5	14.5	8.5	9.1	8.7	6.2	3.5	3.1	4.6	11.7
21.....	24.0	24.7	18.3	13.6	8.4	12.3	8.7	6.5	3.4	3.1	7.1	10.9
22.....	26.0	23.8	21.9	13.1	8.7	14.3	8.4	6.4	3.6	3.1	9.1	10.2
23.....	27.0	21.5	27.4	13.1	10.5	14.2	7.8	6.6	4.5	3.1	9.8	9.8
24.....	27.1	20.7	29.6	14.0	11.9	13.8	7.4	6.3	5.0	3.3	10.6	9.3
25.....	26.7	20.9	28.9	15.0	12.0	13.3	7.4	6.3	4.7	3.5	14.8	8.8
26.....	26.4	22.1	27.5	15.9	11.3	12.5	7.8	6.9	4.5	3.6	18.9	8.4
27.....	25.9	23.4	26.0	16.5	10.4	11.6	8.1	8.5	4.1	3.6	20.5	8.3
28.....	24.4	23.7	24.2	16.4	9.6	10.7	8.6	8.5	3.8	3.6	25.4	8.4
29.....	22.4	.....	22.4	15.9	10.1	9.8	10.5	8.0	3.5	6.5	30.9	8.6
30.....	20.2	.....	21.0	15.4	10.0	9.0	12.3	7.6	3.5	9.6	33.5	8.7
31.....	18.2	.....	20.3	.....	10.9	.....	12.8	7.6	.....	8.9	.....	9.7
<b>Means.</b>	<b>16.7</b>	<b>21.6</b>	<b>25.0</b>	<b>16.0</b>	<b>10.5</b>	<b>10.3</b>	<b>8.7</b>	<b>8.0</b>	<b>4.8</b>	<b>3.9</b>	<b>9.5</b>	<b>17.4</b>
<b>1901</b>												
1.....	10.3	13.2	8.3	26.2	45.7	31.6	22.9	6.9	10.9	7.9	4.4	9.9
2.....	11.7	13.0	8.0	26.4	43.5	32.7	19.9	6.3	11.3	7.6	4.4	12.8
3.....	12.9	12.6	7.9	25.6	38.0	32.4	18.0	5.9	12.2	7.3	4.3	13.2
4.....	13.5	13.3	7.9	24.4	33.6	31.0	16.5	5.8	12.6	7.3	4.3	12.6
5.....	13.0	14.1	7.8	24.1	27.8	28.6	15.5	5.8	12.2	7.8	4.3	11.7
6.....	12.3	14.7	7.9	26.9	22.0	26.3	14.8	5.3	11.6	8.0	4.2	10.8
7.....	11.5	15.9	7.9	30.5	19.5	26.1	14.0	5.4	11.0	7.9	4.2	10.2
8.....	10.8	17.6	7.9	31.6	17.3	23.8	13.5	5.4	10.5	7.6	4.1	9.8
9.....	10.2	18.0	11.9	31.3	15.6	20.8	13.6	5.4	9.9	7.2	4.0	10.2
10.....	9.8	17.0	17.2	31.2	14.7	20.0	13.7	5.4	9.8	6.8	4.0	11.9
11.....	9.6	15.9	22.8	30.9	14.5	21.6	13.3	6.0	9.8	6.4	4.0	13.0
12.....	9.9	15.5	23.0	30.8	14.5	21.4	12.8	9.9	9.6	6.4	4.1	12.9
13.....	11.2	14.7	21.6	29.9	14.7	21.1	12.3	10.6	9.1	6.2	4.0	12.2
14.....	12.8	14.3	23.7	28.6	14.8	19.3	11.6	9.8	8.6	6.1	3.9	11.6
15.....	16.5	13.9	27.5	26.0	15.5	18.3	10.9	8.9	7.7	6.1	4.0	13.4
16.....	21.8	13.5	29.5	23.6	16.9	17.3	10.1	8.2	7.2	5.9	4.0	17.3
17.....	24.0	12.9	30.0	21.5	17.8	16.3	9.3	8.3	7.0	5.9	3.9	23.6
18.....	23.7	12.3	29.3	20.4	17.7	15.9	8.7	9.0	7.3	5.8	3.9	29.6
19.....	22.9	11.5	27.7	21.7	17.0	16.9	8.3	10.3	9.5	5.6	3.9	31.9
20.....	21.0	11.1	25.9	24.7	15.9	20.5	9.0	11.1	11.3	5.6	3.8	32.0
21.....	19.2	10.7	23.7	31.2	14.9	22.9	9.7	11.2	12.9	5.8	3.8	31.9
22.....	17.5	10.3	21.7	37.0	14.5	22.8	9.9	10.8	13.4	5.9	4.0	28.8
23.....	15.9	10.0	19.9	41.8	15.7	21.6	9.9	10.5	13.3	5.8	6.2	25.5
24.....	14.7	9.9	18.4	45.2	19.5	20.8	9.7	10.2	12.9	5.5	7.4	21.8
25.....	13.7	9.6	17.9	47.4	26.3	21.3	9.6	10.1	12.2	5.2	7.3	18.6
26.....	12.8	9.2	19.0	48.8	30.0	28.0	9.6	10.3	11.4	5.0	6.6	16.1
27.....	12.3	8.8	20.0	49.6	29.5	30.8	9.3	10.8	10.7	4.9	6.3	14.9
28.....	12.0	8.5	20.5	49.9	26.9	30.7	9.2	11.0	9.9	4.8	6.3	14.7
29.....	12.3	.....	21.6	49.5	24.8	29.0	9.0	11.1	9.0	4.6	6.6	15.8
30.....	12.8	.....	23.5	48.0	26.1	26.1	8.3	11.0	8.3	4.5	7.5	20.2
31.....	13.0	.....	25.2	.....	29.1	.....	7.8	10.9	.....	4.4	.....	24.4
<b>Means.</b>	<b>14.4</b>	<b>12.9</b>	<b>18.9</b>	<b>32.8</b>	<b>22.4</b>	<b>23.9</b>	<b>12.0</b>	<b>8.6</b>	<b>10.4</b>	<b>6.2</b>	<b>4.8</b>	<b>17.5</b>



## OHIO RIVER SYSTEM—OHIO RIVER, MADISON, IND.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	29.7	34.7	31.3	22.7	14.8	13.8	22.1	12.9	5.5	4.0	5.7	13.8
2.....	34.8	36.4	35.2	26.1	15.1	12.9	22.1	12.8	5.3	4.0	5.4	13.3
3.....	35.7	36.2	38.2	26.7	15.1	12.4	21.4	12.4	5.2	4.2	5.2	15.9
4.....	34.2	35.8	40.4	25.1	13.8	12.1	21.7	12.2	5.0	4.4	5.0	17.1
5.....	31.3	31.6	41.2	23.7	14.6	11.8	22.0	12.6	4.8	5.8	4.9	16.4
6.....	27.3	27.3	41.6	22.8	12.9	11.0	22.1	13.2	4.7	6.8	4.8	15.8
7.....	23.6	23.3	41.6	22.1	12.0	10.2	22.1	13.0	4.5	6.9	4.7	15.6
8.....	20.4	21.3	41.8	21.4	11.5	9.2	22.3	12.5	4.2	6.7	4.6	16.0
9.....	17.7	19.1	41.6	21.1	11.3	9.1	22.8	11.9	4.0	6.4	4.4	16.4
10.....	15.5	17.5	40.9	22.4	11.0	8.9	22.3	11.2	4.0	6.5	4.1	16.9
11.....	13.9	15.9	40.0	22.3	11.0	8.6	20.9	10.6	3.9	6.7	4.1	16.7
12.....	12.9	14.5	39.3	24.8	11.1	8.4	19.4	10.2	3.8	7.2	4.1	16.4
13.....	12.2	12.9	38.1	28.8	11.1	8.1	17.9	9.7	3.8	8.0	4.1	18.6
14.....	11.6	12.0	36.4	32.0	11.1	8.1	16.8	9.0	3.7	8.0	4.1	22.3
15.....	11.4	11.3	35.4	32.7	10.9	8.0	17.2	8.6	3.7	7.7	4.1	24.2
16.....	11.1	10.8	34.7	34.2	10.7	8.0	19.3	8.2	3.7	7.4	4.1	33.5
17.....	10.6	10.2	33.7	33.6	10.3	7.9	18.4	8.0	3.6	7.2	4.1	38.7
18.....	10.3	9.6	33.2	31.6	9.7	8.0	17.2	7.8	3.6	8.0	4.5	40.6
19.....	9.8	9.9	33.4	28.7	9.2	8.3	15.8	7.6	3.7	9.7	6.4	40.8
20.....	9.3	11.0	33.1	25.7	8.7	8.7	14.5	7.4	3.7	10.4	6.3	39.8
21.....	8.9	10.6	32.0	22.8	9.7	9.2	13.0	7.2	3.8	10.2	6.0	37.7
22.....	8.6	11.1	29.9	20.2	9.6	9.4	11.8	7.0	3.8	9.1	5.8	35.9
23.....	8.5	11.6	27.5	19.8	9.3	9.7	11.0	6.6	3.7	8.8	5.8	33.6
24.....	8.7	13.2	25.1	16.7	17.8	9.7	11.1	6.3	3.7	8.1	5.8	29.9
25.....	9.2	12.6	22.7	15.7	16.8	9.5	11.5	6.0	3.7	7.7	6.7	26.5
26.....	9.9	14.0	20.4	15.0	15.8	9.6	11.6	5.8	3.6	7.4	7.7	23.9
27.....	13.3	15.4	18.5	14.2	15.6	9.9	11.8	5.7	3.5	7.2	8.6	22.5
28.....	18.3	23.5	17.1	13.2	15.5	10.4	12.8	5.6	3.6	7.0	10.7	22.3
29.....	22.9	.....	15.7	13.4	15.9	13.9	13.6	5.6	3.6	6.8	11.8	22.0
30.....	28.9	.....	16.3	14.9	15.9	20.8	13.5	5.6	3.8	6.4	13.4	21.1
31.....	32.1	.....	18.4	.....	15.0	.....	13.1	5.5	.....	6.3	.....	19.5
<b>Means.</b>	<b>17.8</b>	<b>18.3</b>	<b>32.1</b>	<b>23.1</b>	<b>12.7</b>	<b>10.2</b>	<b>17.2</b>	<b>9.0</b>	<b>4.0</b>	<b>7.1</b>	<b>5.9</b>	<b>24.0</b>
<b>1903</b>												
1.....	19.0	21.4	33.2	27.8	20.7	12.2	15.0	9.1	3.9	5.4	5.7	8.7
2.....	19.4	27.3	37.4	27.2	20.0	13.8	14.6	8.4	4.1	5.3	5.6	8.2
3.....	22.0	30.9	41.5	26.6	19.0	13.2	13.8	8.1	4.3	4.9	5.5	7.8
4.....	25.6	36.0	43.0	25.8	17.2	13.9	13.4	7.7	8.5	4.8	5.4	7.4
5.....	26.0	39.0	44.5	24.8	15.8	13.9	13.0	7.6	11.0	4.7	5.4	7.0
6.....	27.8	40.0	45.0	23.0	14.7	15.8	13.4	8.5	11.2	4.7	5.4	6.5
7.....	29.6	40.8	44.0	23.3	13.6	15.9	13.3	8.0	11.6	4.6	5.3	6.4
8.....	30.6	41.4	44.2	23.0	13.0	15.2	12.8	7.9	11.4	4.6	5.3	6.3
9.....	30.4	41.2	44.8	25.3	12.4	14.7	11.9	8.2	10.8	4.6	5.3	6.2
10.....	29.0	40.3	43.2	29.4	11.9	14.4	11.1	8.1	10.0	4.6	4.9	5.8
11.....	27.0	38.6	43.2	31.6	11.6	14.5	10.7	7.8	9.1	4.6	4.7	5.3
12.....	25.7	36.0	43.5	33.1	11.1	14.6	11.3	7.3	8.2	4.5	4.6	5.7
13.....	23.5	34.5	43.1	35.0	10.8	14.4	11.7	6.8	7.5	4.4	4.6	5.8
14.....	20.7	29.3	43.1	34.1	10.5	13.4	12.1	6.6	7.0	4.4	4.6	5.8
15.....	20.0	27.0	43.0	31.5	10.1	12.1	11.2	6.4	6.7	5.0	4.6	6.0
16.....	19.7	31.6	42.3	33.1	9.7	11.3	10.2	6.0	6.0	7.9	4.7	6.0
17.....	18.9	37.5	41.1	35.0	9.1	11.1	9.7	6.2	6.0	9.8	4.7	6.0
18.....	17.7	39.7	39.1	37.0	8.7	10.7	9.5	5.8	6.1	9.7	4.8	5.7
19.....	17.0	41.0	36.9	36.6	8.5	10.3	9.6	5.6	6.4	9.2	5.0	5.5
20.....	16.6	42.5	33.0	36.0	8.4	9.8	9.9	5.3	6.8	8.5	5.0	5.9
21.....	16.0	42.0	29.4	35.1	8.2	9.9	10.2	5.0	7.0	7.8	5.2	7.5
22.....	15.4	40.0	26.6	34.0	8.2	10.5	10.6	4.8	7.0	7.0	5.8	8.5
23.....	14.9	37.0	24.4	32.7	11.0	11.0	11.1	4.8	7.0	6.5	6.4	8.0
24.....	13.9	31.6	23.5	30.2	9.5	10.8	9.8	4.7	7.0	6.3	9.0	7.9
25.....	14.2	27.7	24.1	27.5	8.1	10.3	8.8	4.5	6.4	6.2	13.6	8.0
26.....	15.0	25.1	28.5	24.7	7.4	9.8	9.2	4.4	6.2	6.0	13.0	8.5
27.....	15.8	23.5	33.0	23.4	7.7	10.0	10.5	4.2	6.0	6.0	12.6	10.0
28.....	17.5	27.1	35.0	21.5	8.1	11.0	12.0	4.0	5.8	5.9	12.2	11.0
29.....	19.7	.....	33.3	20.8	9.0	12.8	12.3	3.9	5.6	6.0	11.1	11.1
30.....	21.0	.....	31.4	20.4	10.1	14.4	11.9	3.9	5.4	5.9	9.2	13.0
31.....	20.8	.....	29.0	.....	11.9	.....	9.9	3.9	.....	5.8	.....	12.4
<b>Means.</b>	<b>21.0</b>	<b>34.6</b>	<b>37.0</b>	<b>29.0</b>	<b>11.5</b>	<b>12.5</b>	<b>11.4</b>	<b>6.2</b>	<b>7.3</b>	<b>6.0</b>	<b>6.6</b>	<b>7.5</b>



## OHIO RIVER SYSTEM—OHIO RIVER, LOUISVILLE, KY.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	5.9	7.4	5.0	11.0	30.4	12.2	10.1	4.3	6.3	5.0	3.2	5.2
2.....	6.6	7.4	4.8	11.2	27.3	13.0	9.4	4.0	6.4	4.7	3.2	7.1
3.....	7.2	7.3	4.7	10.9	23.0	13.3	8.8	3.7	6.9	4.5	3.2	7.6
4.....	7.6	7.3	4.7	10.6	17.4	12.6	8.4	3.6	7.1	4.4	3.2	7.4
5.....	7.5	7.9	4.6	10.5	11.8	11.7	8.0	3.5	7.1	4.6	3.2	6.9
6.....	7.2	7.6	4.6	11.0	10.0	10.9	7.8	3.5	6.7	4.8	3.1	6.5
7.....	6.7	8.0	4.7	12.3	9.2	10.7	7.7	3.4	6.5	4.8	3.1	6.1
8.....	6.4	8.7	4.7	13.0	8.6	10.4	7.5	3.3	6.2	4.7	3.1	5.8
9.....	6.1	8.8	5.8	13.1	8.0	9.7	7.6	3.3	6.0	4.4	3.0	6.0
10.....	5.8	8.6	8.5	12.9	7.9	9.2	7.7	3.3	5.9	4.3	3.0	6.5
11.....	5.7	8.2	10.1	12.8	8.0	9.5	7.6	3.3	5.8	4.0	2.9	7.4
12.....	5.8	7.9	10.4	12.7	8.0	9.6	7.4	5.1	5.8	4.0	2.9	7.5
13.....	6.2	7.6	9.9	12.4	8.0	9.4	7.1	6.2	5.6	3.9	2.9	7.1
14.....	7.0	7.5	10.2	11.9	8.0	9.2	6.9	6.0	5.3	3.9	2.9	7.0
15.....	8.4	7.3	11.3	11.0	8.2	8.9	6.4	5.3	4.8	3.7	2.8	7.3
16.....	9.6	7.2	12.1	10.4	8.2	8.6	6.1	4.9	4.4	3.6	2.8	8.8
17.....	10.5	7.1	12.4	9.8	8.5	8.3	5.8	5.0	4.3	3.5	2.8	10.2
18.....	10.5	6.9	12.2	9.5	8.5	8.1	5.5	5.2	4.3	3.5	2.8	12.0
19.....	10.3	6.7	11.7	9.6	8.4	8.2	5.2	5.8	5.4	3.4	2.8	13.0
20.....	9.8	6.3	11.1	10.2	8.1	9.1	5.4	6.3	6.5	3.4	2.8	13.4
21.....	9.3	6.3	10.5	12.0	7.8	10.0	5.7	6.5	7.2	3.4	2.8	13.1
22.....	8.8	6.0	10.0	16.4	7.8	10.2	5.9	6.3	7.7	3.9	2.8	12.1
23.....	8.3	5.9	9.4	22.0	8.2	9.8	5.9	6.1	7.7	4.0	2.9	11.1
24.....	8.0	5.6	9.0	26.5	8.7	9.3	5.8	6.1	7.5	3.9	4.2	10.0
25.....	7.8	5.6	8.8	29.5	10.5	9.3	5.7	5.9	7.3	3.6	4.4	9.2
26.....	7.5	5.6	9.0	31.4	11.8	11.0	5.7	6.0	6.9	3.5	4.2	8.4
27.....	7.1	5.3	9.3	32.5	11.9	12.2	5.6	6.2	6.5	3.5	3.9	7.8
28.....	7.0	5.2	9.5	33.2	11.2	12.3	5.5	6.3	6.1	3.4	3.8	7.6
29.....	7.0	.....	9.8	33.2	10.6	11.8	5.4	6.4	5.6	3.3	3.9	7.9
30.....	7.2	.....	10.2	32.3	10.6	11.0	5.2	6.5	5.3	3.3	4.3	9.1
31.....	7.4	.....	10.7	.....	11.4	.....	4.8	6.4	.....	3.2	.....	10.2
<b>Means.</b>	<b>7.6</b>	<b>7.0</b>	<b>8.7</b>	<b>16.5</b>	<b>11.2</b>	<b>10.3</b>	<b>6.4</b>	<b>5.1</b>	<b>6.2</b>	<b>3.9</b>	<b>3.2</b>	<b>8.6</b>
<b>1902</b>												
1.....	12.0	15.0	12.0	9.6	7.8	7.5	10.0	7.2	3.4	3.4	3.5	7.8
2.....	14.2	17.8	14.3	10.6	7.8	7.0	10.1	7.3	3.2	3.5	3.4	7.7
3.....	16.5	18.2	17.9	10.9	7.8	6.8	9.9	7.3	3.2	3.5	3.3	8.4
4.....	15.9	17.0	21.0	10.6	7.7	6.6	9.9	7.2	3.1	3.7	3.2	8.5
5.....	13.7	14.5	22.7	10.2	7.4	6.7	10.1	7.2	3.0	3.9	3.1	8.3
6.....	11.6	11.7	23.5	9.9	7.0	6.5	10.1	7.6	2.9	4.5	3.0	8.1
7.....	10.5	10.6	24.0	9.7	6.6	6.2	10.1	7.6	2.8	4.6	3.0	8.0
8.....	9.6	9.8	24.3	9.5	6.4	5.8	10.1	7.4	2.7	4.2	3.0	8.0
9.....	8.8	9.1	24.8	9.5	6.4	5.6	10.2	7.1	2.7	3.9	2.9	8.2
10.....	8.1	8.6	24.3	9.4	6.4	5.5	10.2	6.8	2.8	3.9	2.9	8.3
11.....	7.5	8.0	23.1	9.5	6.4	5.4	9.8	6.5	2.9	4.0	2.9	8.3
12.....	7.1	7.4	22.0	10.1	6.4	5.2	9.4	6.2	2.9	4.2	2.8	8.2
13.....	7.0	7.0	20.8	11.2	6.3	5.1	8.9	5.9	2.9	4.5	2.8	8.8
14.....	6.6	6.6	19.1	12.5	6.3	5.0	8.5	5.7	2.9	4.9	3.1	9.8
15.....	6.4	5.9	17.7	13.9	6.3	4.9	8.5	5.3	2.8	4.7	3.1	10.5
16.....	6.2	5.7	16.2	14.7	6.1	4.9	8.8	5.1	2.8	4.5	3.1	13.8
17.....	5.9	5.2	15.1	14.4	6.0	4.8	8.9	5.0	2.9	4.4	3.2	20.5
18.....	5.8	5.1	14.5	13.4	5.8	4.8	8.7	4.9	2.9	4.6	3.3	23.6
19.....	5.7	4.5	14.3	11.8	5.5	4.9	8.2	4.8	2.8	5.5	4.1	24.3
20.....	5.5	4.5	14.2	10.2	5.4	5.3	7.8	4.6	3.0	6.1	4.4	23.5
21.....	5.3	4.5	13.5	10.1	5.4	5.6	7.2	4.5	3.0	6.1	4.3	21.5
22.....	5.0	4.4	12.4	9.4	5.7	5.6	6.7	4.3	3.1	5.8	4.0	19.0
23.....	4.9	4.5	11.2	8.8	5.8	5.8	6.3	4.3	3.1	5.4	4.0	16.8
24.....	4.9	4.8	10.4	8.4	8.9	5.9	6.2	4.0	3.0	5.0	3.8	13.3
25.....	5.1	5.0	10.1	8.0	8.9	5.8	6.4	3.8	3.0	4.8	4.4	11.1
26.....	5.5	6.9	9.3	7.1	8.3	5.8	6.5	3.7	3.0	4.5	4.6	10.2
27.....	6.4	7.6	8.8	7.5	8.1	6.0	6.6	3.6	2.9	4.4	5.3	9.2
28.....	8.5	9.5	8.3	7.2	8.1	6.2	6.9	3.6	2.9	4.3	6.0	9.0
29.....	9.8	.....	8.0	7.0	8.3	7.0	7.2	3.5	2.9	4.1	6.6	9.2
30.....	11.5	.....	7.7	7.5	8.3	9.6	7.3	3.5	2.9	3.9	7.5	9.5
31.....	12.9	.....	8.4	.....	8.0	.....	7.1	3.4	.....	3.7	.....	9.1
<b>Means.</b>	<b>8.5</b>	<b>8.6</b>	<b>15.9</b>	<b>10.1</b>	<b>7.0</b>	<b>5.9</b>	<b>8.5</b>	<b>5.4</b>	<b>2.9</b>	<b>4.5</b>	<b>3.8</b>	<b>12.0</b>

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—OHIO RIVER, LOUISVILLE, KY.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1908</b>												
1.....	8.3	9.3	12.9	11.2	9.0	6.8	8.1	5.5	3.4	3.7	3.5	5.3
2.....	8.9	10.8	16.4	10.9	9.0	8.3	8.0	4.8	3.3	3.6	3.4	5.0
3.....	9.5	12.2	20.2	10.7	8.6	7.5	7.8	4.6	3.5	3.6	3.2	4.7
4.....	10.5	14.4	23.5	10.4	8.3	7.4	7.5	4.6	4.5	3.4	3.1	4.6
5.....	10.8	20.3	26.0	10.2	7.8	7.2	7.4	4.6	6.1	3.3	3.0	4.2
6.....	11.2	22.2	27.3	10.0	7.5	7.8	7.5	4.9	6.8	3.2	3.0	4.0
7.....	11.8	23.1	27.2	9.8	7.1	8.3	7.6	4.9	6.8	3.0	3.1	3.8
8.....	12.3	23.8	27.1	9.7	6.5	7.7	7.2	4.8	6.7	3.1	3.1	3.8
9.....	12.4	24.0	28.5	10.3	6.5	7.5	6.9	4.8	6.4	3.2	3.1	3.7
10.....	12.1	23.2	27.4	11.0	6.4	7.5	6.5	4.9	5.9	3.2	3.1	3.5
11.....	11.3	21.5	26.7	12.1	6.4	7.5	6.2	4.6	5.6	3.2	3.0	3.3
12.....	10.8	18.8	26.7	13.4	6.2	7.6	6.2	4.5	5.1	3.2	3.0	3.3
13.....	10.1	15.4	26.2	15.2	6.1	7.8	6.8	4.2	4.7	3.1	3.0	3.3
14.....	9.5	12.1	25.9	15.9	5.9	7.5	6.9	4.0	4.2	3.1	3.2	3.1
15.....	9.5	11.0	25.7	14.5	5.8	7.0	6.6	3.9	3.9	3.2	3.3	3.0
16.....	9.2	12.7	25.2	13.9	5.6	6.5	6.2	3.8	3.7	4.1	3.3	3.1
17.....	8.8	17.5	24.5	15.1	5.5	6.4	5.8	3.6	3.6	5.5	3.5	3.2
18.....	8.7	20.8	22.9	17.0	5.0	6.3	5.6	3.6	3.6	5.8	3.5	3.1
19.....	8.2	23.4	20.4	18.2	5.0	6.0	5.6	3.8	3.7	5.5	3.4	2.9
20.....	8.0	24.7	16.6	18.9	5.0	5.7	3.9	3.8	3.8	5.3	3.3	2.8
21.....	7.7	25.1	12.7	18.6	4.9	5.6	5.9	3.9	4.2	4.9	3.3	3.0
22.....	7.4	23.7	10.9	17.0	4.8	6.0	5.9	4.0	4.3	4.4	3.4	4.0
23.....	7.3	20.3	10.2	14.9	5.8	6.2	6.4	3.9	4.3	3.9	3.5	4.6
24.....	7.1	15.7	9.8	12.7	5.9	6.2	6.0	3.8	4.4	3.7	5.8	4.4
25.....	7.1	11.8	9.8	11.2	4.8	6.0	5.6	3.7	4.4	3.5	7.4	4.5
26.....	7.3	10.6	10.9	10.4	4.3	5.8	5.6	3.6	4.3	3.6	7.5	5.2
27.....	7.6	10.0	12.5	9.9	4.3	5.7	5.8	3.4	4.1	3.6	7.1	4.7
28.....	7.9	10.4	13.9	9.2	4.3	6.1	6.4	3.3	4.0	3.6	6.5	5.5
29.....	8.3		14.0	9.2	4.7	7.0	6.5	3.3	3.9	3.6	6.0	6.0
30.....	9.2		13.1	9.0	5.2	7.9	6.3	3.5	3.8	3.6	5.5	6.6
31.....	9.3		11.8		6.0		5.9	3.4		3.6		7.2
Means.	9.3	17.5	19.6	12.7	6.1	6.9	6.5	4.1	4.6	3.8	4.0	4.2
<b>1904</b>												
1.....	6.7	11.4	8.8	21.0	10.2	8.7	5.3	3.6	3.6	2.4	2.6	2.3
2.....	6.3	9.9	8.6	20.3	10.7	8.7	5.1	3.5	3.8	2.3	2.6	2.4
3.....	6.0	9.0	8.4	19.0	10.9	8.6	5.0	3.6	4.0	2.3	2.5	2.4
4.....	5.5	8.0	8.5	16.5	10.8	8.5	5.5	3.8	4.0	2.2	2.5	2.4
5.....	4.7	7.3	10.0	14.1	10.6	8.3	6.2	3.9	3.8	2.1	2.8	2.4
6.....	4.3	6.7	11.3	13.1	10.2	8.5	6.5	4.0	3.6	2.1	3.0	2.3
7.....	4.0	6.5	13.0	14.4	9.8	8.9	6.4	4.0	3.7	2.1	3.1	2.2
8.....	4.0	8.2	15.6	15.2	9.2	9.0	6.1	4.0	3.6	2.0	3.1	2.2
9.....	4.2	8.4	17.7	14.5	8.8	8.8	5.8	3.8	3.5	2.0	3.1	2.2
10.....	4.2	8.0	19.0	12.4	8.3	8.4	5.7	3.7	3.3	2.0	3.1	2.2
11.....	4.3	7.8	19.3	10.6	7.8	7.9	5.7	3.7	3.3	2.4	3.0	2.2
12.....	4.2	8.5	19.3	9.6	7.3	7.3	6.6	4.0	3.3	2.6	2.9	2.2
13.....	4.1	9.6	18.4	8.9	6.9	6.8	8.3	3.9	3.3	2.6	2.8	2.3
14.....	4.8	10.3	17.1	8.3	6.5	6.6	8.3	3.9	3.3	2.6	2.7	2.5
15.....	4.4	10.3	14.8	8.0	6.1	6.6	8.1	4.0	3.2	2.6	2.6	2.7
16.....	4.4	9.7	12.0	7.8	5.9	6.5	7.8	3.9	3.1	2.6	2.5	2.7
17.....	4.7	8.9	10.5	7.7	5.8	6.4	8.0	3.8	3.0	2.5	2.5	2.6
18.....	5.0	8.2	9.7	7.7	5.5	6.2	7.8	3.7	2.9	2.5	2.5	2.6
19.....	5.1	7.5	9.2	7.5	5.4	5.9	7.6	3.6	2.8	2.5	2.4	2.8
20.....	4.9	6.9	8.7	7.3	5.2	5.7	7.1	3.5	2.8	2.4	2.4	2.9
21.....	5.1	6.4	8.4	7.1	5.1	5.3	6.6	3.6	2.8	2.5	2.4	2.9
22.....	8.2	7.2	8.2	6.9	5.0	5.0	6.2	3.5	2.7	2.7	2.4	3.0
23.....	10.2	7.9	10.0	6.7	5.3	4.9	5.7	3.6	2.6	2.7	2.4	2.9
24.....	10.6	7.8	10.6	6.5	5.9	4.8	5.3	3.6	2.6	2.6	2.3	2.8
25.....	9.6	7.4	10.7	6.3	7.0	4.7	4.8	3.6	2.6	2.6	2.3	2.8
26.....	10.6	7.4	14.2	6.6	8.0	4.8	4.5	3.7	2.6	2.6	2.3	2.7
27.....	13.1	7.9	21.0	7.4	8.4	5.0	4.2	3.6	2.6	2.8	2.3	2.6
28.....	14.3	8.5	22.9	7.7	8.1	5.2	4.0	3.6	2.6	2.8	2.3	2.7
29.....	15.7	8.8	22.0	8.0	7.8	5.3	3.9	3.5	2.5	2.8	2.2	3.4
30.....	15.7		20.3	8.9	7.6	5.5	3.7	3.5	2.5	2.8	2.2	3.4
31.....	13.9		19.2		7.8		3.7	3.5		2.7		3.3
Means.	7.2	8.3	13.8	10.5	7.7	6.8	6.0	3.7	3.1	2.5	2.6	2.6

## DESCRIPTION OF RIVER GAGES, ETC.

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## OHIO RIVER SYSTEM—OHIO RIVER, EVANSVILLE, IND.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	a 15.0	18.8	22.2	20.7	14.3	9.4	10.7	9.9	5.9	2.3	2.0	31.7
2.....	a 14.3	16.8	22.9	19.3	13.8	10.6	9.9	11.1	5.7	2.0	4.5	33.1
3.....	a 13.2	14.7	23.0	18.4	13.0	13.0	8.9	11.4	5.7	1.8	5.6	33.6
4.....	a 12.4	12.8	22.7	17.7	12.4	13.8	8.2	11.2	5.6	1.7	5.4	33.4
5.....	a 9.0	11.7	22.0	17.1	11.7	13.3	7.6	11.0	5.5	1.6	5.0	32.6
6.....	a 7.5	a 10.0	22.2	16.4	10.7	12.5	7.4	10.8	5.2	1.5	4.4	30.7
7.....	a 7.2	10.0	24.4	15.9	10.2	11.6	7.6	10.8	4.9	1.4	3.8	27.8
8.....	a 6.5	9.9	27.5	15.5	9.5	11.4	8.1	10.1	4.7	3.6	3.2	25.1
9.....	a 5.9	14.0	29.4	15.1	8.8	11.6	8.2	8.9	4.4	3.6	2.7	22.2
10.....	a 5.8	18.0	29.7	14.8	8.8	11.8	7.9	7.7	4.2	3.0	2.7	20.8
11.....	a 5.5	21.8	28.9	14.3	8.8	11.7	7.5	6.8	4.0	2.7	2.6	20.8
12.....	6.0	23.9	28.0	14.2	8.8	10.9	7.0	6.2	3.7	2.6	2.5	21.1
13.....	8.4	24.7	27.6	14.0	8.6	9.9	6.5	5.6	3.5	2.3	2.4	21.1
14.....	10.7	26.2	27.7	13.8	8.1	8.9	6.1	5.2	3.2	2.0	2.5	20.5
15.....	13.0	27.7	27.5	13.5	7.7	9.6	5.7	4.9	2.9	1.7	3.0	19.2
16.....	14.5	29.2	26.7	13.3	a 7.0	14.0	5.4	4.6	2.8	1.7	3.2	17.9
17.....	14.2	30.4	25.2	13.1	a 6.7	14.2	5.2	4.4	2.6	1.5	3.2	16.3
18.....	14.8	31.1	23.4	12.9	7.6	13.5	5.1	4.3	2.5	1.3	3.0	14.6
19.....	15.4	31.1	21.4	13.0	7.6	12.6	5.3	4.1	2.4	1.3	2.9	13.4
20.....	17.5	30.3	19.7	13.6	a 7.6	11.6	5.4	4.1	2.3	1.3	2.8	12.0
21.....	19.7	29.1	18.2	13.8	7.1	10.3	5.6	4.1	2.1	1.3	4.0	11.0
22.....	21.9	27.9	17.4	13.4	6.8	9.9	6.0	4.2	2.0	1.3	5.9	10.1
23.....	24.1	26.7	18.0	12.8	6.6	9.7	6.6	4.3	1.8	1.3	8.0	9.3
24.....	25.5	25.5	20.7	12.5	6.5	11.9	6.8	4.4	1.6	1.2	10.4	8.1
25.....	26.0	24.0	24.0	12.6	6.7	13.1	7.0	4.5	1.5	1.1	13.3	a 7.6
26.....	25.9	22.7	26.0	13.0	7.8	13.0	7.6	4.7	1.6	1.1	16.9	a 6.9
27.....	25.5	22.1	26.6	13.7	8.9	12.4	8.2	4.6	2.0	1.0	21.2	7.7
28.....	24.7	22.0	26.3	14.2	9.0	11.7	8.5	4.5	2.5	1.1	23.5	7.3
29.....	23.9		25.3	14.5	8.8	11.1	8.6	4.7	2.6	1.1	25.3	7.5
30.....	22.8		23.9	14.6	8.6	11.1	8.6	5.3	2.6	1.1	28.3	7.9
31.....	21.2		22.2		8.6		8.8	5.9		1.4		8.4
<b>Means.</b>	<b>15.4</b>	<b>21.9</b>	<b>24.2</b>	<b>14.7</b>	<b>8.9</b>	<b>11.7</b>	<b>7.3</b>	<b>6.6</b>	<b>3.4</b>	<b>1.7</b>	<b>7.5</b>	<b>18.1</b>
<b>1901</b>												
1.....	9.2	10.3	6.7	20.9	41.8	22.9	25.8	6.5	8.5	7.5	2.6	4.0
2.....	10.1	10.6	6.6	22.5	41.6	24.6	24.2	6.3	8.4	6.9	2.4	4.0
3.....	11.1	10.9	6.5	23.7	41.2	26.7	21.9	5.6	8.3	6.2	2.3	4.5
4.....	11.8	11.1	6.4	24.5	40.3	28.0	19.4	5.4	8.3	5.9	2.3	6.6
5.....	12.2	11.7	6.0	24.6	38.8	28.6	16.9	5.3	8.7	5.5	2.2	8.8
6.....	12.1	12.7	5.8	24.3	36.5	28.0	15.3	5.1	9.2	5.3	2.2	9.4
7.....	11.8	13.4	5.8	24.4	32.7	26.9	14.2	4.1	9.4	5.1	2.1	9.2
8.....	11.2	13.7	5.7	26.0	26.7	25.2	13.1	3.9	9.2	5.2	2.1	8.7
9.....	10.4	14.1	5.7	28.0	21.5	24.0	12.0	3.9	8.8	5.4	2.0	8.0
10.....	9.6	15.0	6.6	29.2	18.5	22.6	11.5	3.7	8.3	5.4	2.0	7.7
11.....	9.0	15.5	10.7	29.7	15.4	20.7	11.0	3.6	7.9	5.3	2.1	7.7
12.....	8.7	15.2	17.9	29.6	13.0	19.0	10.9	3.5	7.6	5.1	2.0	8.3
13.....	9.2	14.5	22.2	29.5	12.7	18.3	10.7	3.4	7.5	5.6	2.0	9.6
14.....	9.8	13.8	23.2	29.4	11.3	18.4	10.5	3.8	7.6	5.1	1.9	11.4
15.....	10.8	13.1	22.8	29.2	12.1	17.9	10.2	5.8	7.5	5.0	1.8	11.8
16.....	11.9	12.5	23.3	28.4	12.1	17.2	9.6	7.0	7.6	4.3	1.8	13.2
17.....	14.4	12.0	25.2	26.8	12.5	16.4	9.0	7.1	7.3	4.2	1.8	14.2
18.....	18.0	11.5	27.0	24.9	13.4	15.6	8.4	6.7	6.8	4.1	1.8	16.8
19.....	20.4	11.0	27.7	23.5	14.2	14.7	8.2	6.5	6.3	4.0	1.7	21.7
20.....	21.1	10.4	27.5	22.4	14.5	14.0	7.8	6.5	6.4	3.8	1.7	26.0
21.....	20.6	9.8	26.7	22.7	14.4	14.2	7.6	6.9	6.8	3.6	1.7	28.0
22.....	19.4	9.2	24.8	25.3	14.0	16.8	7.5	8.0	7.8	3.4	1.7	28.7
23.....	17.7	8.8	23.0	30.2	13.2	19.9	6.7	9.0	9.1	3.4	1.7	28.3
24.....	16.0	7.9	21.2	34.3	12.6	21.0	7.0	9.6	10.2	3.3	1.7	27.2
25.....	14.6	7.3	19.3	37.1	12.8	20.3	7.2	9.1	10.6	3.3	1.7	24.8
26.....	13.5	7.2	17.1	38.8	15.3	19.0	7.3	8.7	10.5	3.3	2.0	21.5
27.....	12.2	7.3	17.1	40.3	20.6	19.7	7.2	8.4	10.1	3.2	3.2	19.2
28.....	11.2	7.0	17.6	41.2	24.3	23.1	7.0	8.2	9.5	3.2	4.1	16.2
29.....	10.6		18.1	41.6	25.4	26.0	7.0	8.3	8.8	2.9	4.3	14.3
30.....	10.0		18.4	41.8	24.2	26.9	6.8	8.4	8.2	2.7	4.1	13.3
31.....	9.7		19.4		23.1		6.8	8.5		2.7		13.7
<b>Means.</b>	<b>12.8</b>	<b>11.3</b>	<b>16.5</b>	<b>29.2</b>	<b>21.6</b>	<b>21.2</b>	<b>11.2</b>	<b>6.3</b>	<b>8.4</b>	<b>4.5</b>	<b>2.2</b>	<b>14.4</b>

a Estimated.

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—OHIO RIVER, EVANSVILLE, IND.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	16.3	28.9	16.1	17.8	12.6	14.1	13.4	10.8	3.7	2.5	4.7	9.3
2.....	20.7	32.1	22.3	19.2	13.4	13.6	17.9	10.8	3.8	2.4	4.4	10.4
3.....	25.8	34.0	27.6	22.0	14.3	12.7	20.1	10.7	4.0	2.8	4.2	11.8
4.....	29.6	35.1	31.4	24.7	14.8	11.7	21.3	10.5	4.0	3.6	3.9	13.1
5.....	31.3	35.8	34.0	26.0	14.8	10.8	20.0	10.2	3.9	3.8	3.7	15.0
6.....	31.3	35.5	35.9	25.7	14.2	10.2	19.7	9.9	3.7	3.7	3.5	16.2
7.....	29.9	34.0	37.3	24.5	13.2	9.7	19.9	9.9	3.5	3.5	3.3	16.0
8.....	27.3	32.0	38.2	23.1	12.1	9.2	20.1	10.2	3.2	3.4	3.1	15.4
9.....	24.0	29.1	39.1	21.8	11.1	8.6	20.1	10.4	2.9	3.7	2.9	15.0
10.....	20.5	26.1	39.7	20.7	10.4	8.1	20.2	10.3	2.7	4.3	2.9	14.9
11.....	17.3	23.3	40.0	19.9	9.8	7.6	20.5	9.9	2.5	4.5	2.8	14.8
12.....	15.0	21.1	39.8	19.5	9.4	7.2	20.2	9.3	2.3	4.4	2.8	14.9
13.....	12.8	19.2	39.5	19.9	9.1	6.9	19.2	8.8	2.2	4.4	2.7	15.8
14.....	11.4	17.0	39.1	21.7	8.9	6.3	17.9	8.3	2.1	4.4	2.6	18.4
15.....	10.3	14.2	38.4	24.8	8.9	6.3	16.4	7.8	2.0	4.6	2.5	22.2
16.....	9.4	12.2	37.7	27.7	8.9	6.3	15.3	7.4	2.0	5.1	2.5	27.2
17.....	8.9	10.4	36.9	29.6	8.8	6.2	14.9	6.9	2.0	5.4	2.0	32.2
18.....	8.5	9.2	36.1	30.5	8.6	6.0	15.3	6.5	2.0	5.4	2.9	35.9
19.....	8.1	8.6	35.2	30.6	8.4	6.0	15.6	6.4	2.0	5.3	3.4	37.9
20.....	7.9	8.0	34.4	29.7	8.1	5.9	15.2	6.2	1.9	5.2	3.5	39.2
21.....	7.7	7.0	33.7	27.9	7.8	5.9	14.2	6.0	1.8	5.5	3.3	39.9
22.....	7.3	8.0	33.0	25.4	7.6	6.0	13.1	5.8	1.8	6.6	3.5	40.0
23.....	7.0	7.2	31.8	22.6	7.4	6.5	11.9	5.7	1.8	7.3	3.8	39.7
24.....	6.7	6.4	30.1	20.0	7.6	6.8	11.7	5.8	1.7	7.4	4.0	39.0
25.....	6.5	7.0	27.9	17.7	9.8	7.0	9.6	5.6	1.9	7.0	4.2	37.9
26.....	6.5	9.2	25.4	15.7	16.0	7.2	9.0	5.1	2.3	6.5	4.7	36.1
27.....	7.6	11.3	22.8	14.3	16.7	7.2	8.9	4.7	3.1	5.9	5.4	33.7
28.....	10.4	13.4	20.5	13.2	15.7	7.3	9.0	4.3	3.4	5.5	6.9	30.9
29.....	14.8	.....	18.6	13.0	14.8	8.4	9.2	4.1	3.3	5.3	7.9	28.5
30.....	19.6	.....	17.6	12.6	14.5	10.3	9.6	3.9	2.9	5.1	8.6	26.5
31.....	24.4	.....	17.4	.....	14.2	.....	10.4	3.8	.....	4.9	.....	25.4
Means.	15.6	19.1	31.5	22.1	11.4	8.2	15.5	7.6	2.7	4.8	3.9	24.9
<b>1903</b>												
1.....	22.9	19.1	32.5	30.0	20.9	9.3	9.6	8.6	3.8	3.9	3.9	8.5
2.....	21.8	19.9	33.2	28.7	19.4	11.1	11.3	8.3	3.9	3.8	4.0	7.8
3.....	21.4	22.0	34.8	27.4	18.8	13.1	12.3	8.0	3.8	3.7	4.0	7.2
4.....	23.0	25.9	36.4	26.3	18.2	15.3	12.4	7.7	3.6	3.7	3.9	6.6
5.....	24.7	30.6	37.9	25.3	17.3	16.3	12.2	7.4	3.4	3.6	3.8	6.1
6.....	26.1	34.4	39.2	24.5	16.1	16.6	11.7	7.2	3.4	3.5	3.6	5.8
7.....	27.0	36.6	40.3	23.2	15.1	16.8	11.3	7.0	4.9	3.4	3.5	5.3
8.....	27.8	37.9	41.2	22.4	14.1	17.5	11.3	7.5	7.5	3.3	3.5	4.9
9.....	28.3	38.9	41.8	21.9	12.4	18.4	11.4	7.9	8.7	3.2	3.3	4.6
10.....	29.6	39.5	42.2	22.4	11.8	18.0	11.1	7.6	9.0	3.1	3.2	4.4
11.....	29.6	39.8	42.4	24.1	11.1	17.3	10.4	7.0	8.8	3.1	3.1	4.2
12.....	29.0	39.7	42.2	26.5	10.5	16.2	9.6	6.6	8.3	3.3	3.0	4.1
13.....	27.0	39.1	42.0	29.2	9.9	14.7	9.1	6.3	7.6	3.3	2.8	3.7
14.....	24.6	38.0	41.8	31.6	9.5	13.5	8.9	6.3	7.0	3.1	2.8	3.6
15.....	22.0	36.5	41.6	33.3	9.1	12.9	9.3	6.1	6.3	3.1	2.7	3.3
16.....	20.2	35.4	41.5	33.7	8.9	12.2	9.8	5.7	5.8	3.0	2.7	3.5
17.....	19.2	35.8	41.4	33.4	8.3	11.3	10.2	5.3	5.3	2.9	2.4	3.3
18.....	18.3	36.9	41.3	33.3	8.2	10.4	9.9	5.0	4.9	3.0	2.3	3.3
19.....	17.5	38.2	41.0	33.8	7.7	9.7	9.4	4.8	4.5	4.3	2.5	3.3
20.....	16.7	39.2	40.5	34.6	7.5	9.2	8.8	4.6	4.3	6.2	2.9	3.3
21.....	15.7	40.0	39.5	35.5	7.3	8.8	8.2	4.5	4.2	6.8	3.4	3.5
22.....	14.9	40.5	38.2	36.0	7.2	8.4	8.0	4.4	4.2	6.7	3.7	3.5
23.....	14.4	40.7	36.3	36.0	7.1	8.1	7.9	4.4	4.2	6.2	3.9	4.0
24.....	13.6	40.4	33.7	35.5	6.9	8.1	8.0	4.3	4.2	5.7	3.7	4.8
25.....	13.1	39.5	31.1	34.4	7.1	8.4	8.4	4.2	4.2	5.3	3.7	5.6
26.....	12.7	37.9	28.0	32.7	7.9	8.6	8.4	4.1	4.2	4.7	4.0	6.1
27.....	13.4	35.8	26.7	30.4	7.7	8.6	7.9	4.2	4.2	4.5	8.2	6.4
28.....	14.1	33.7	27.1	27.8	6.9	8.3	7.3	4.2	4.2	4.2	10.0	6.9
29.....	15.2	.....	28.8	25.2	6.4	8.2	7.3	4.0	4.2	4.1	9.9	7.3
30.....	16.6	.....	30.2	22.8	6.9	8.4	8.0	3.9	4.0	4.0	9.2	7.5
31.....	18.6	.....	30.6	.....	8.0	.....	8.6	3.8	.....	3.9	.....	8.0
Means.	20.6	35.4	36.9	29.4	10.8	12.1	9.6	5.8	5.2	4.1	4.1	5.2

\* Estimated.

## DESCRIPTION OF RIVER GAGES, ETC.

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## OHIO RIVER SYSTEM—OHIO RIVER, EVANSVILLE, IND.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	8.4	31.6	17.4	39.3	17.4	13.8	8.3	5.3	3.6	2.4	1.9	1.3
2.....	9.3	30.5	18.2	39.5	19.7	14.4	8.5	5.0	3.6	2.0	1.9	1.3
3.....	9.1	28.3	18.2	39.8	22.7	17.2	8.4	4.8	3.7	1.8	1.8	1.2
4.....	8.6	26.0	18.1	39.8	24.4	18.1	8.1	4.6	3.4	1.7	1.8	1.2
5.....	7.8	23.0	17.6	39.3	25.1	18.3	7.8	4.2	3.5	1.6	1.8	1.3
6.....	7.7	19.0	18.5	38.5	25.1	18.0	7.9	4.2	3.8	1.5	1.6	1.3
7.....	7.4	14.0	22.6	37.3	24.7	17.6	8.7	4.2	3.9	1.4	1.5	1.3
8.....	6.9	13.4	26.9	36.4	23.6	17.7	9.7	4.5	3.9	1.2	1.5	1.3
9.....	6.2	13.8	30.5	36.0	22.2	18.1	10.1	4.5	3.8	1.2	1.7	1.3
10.....	5.7	15.5	32.9	35.5	20.6	18.4	10.2	4.4	3.8	1.1	2.1	1.2
11.....	5.4	16.8	34.5	34.6	18.8	18.0	9.8	4.5	3.5	1.0	2.3	1.2
12.....	5.3	16.2	35.6	33.0	17.1	17.0	9.5	4.5	3.3	1.1	2.3	1.2
13.....	5.2	15.6	36.1	30.7	15.6	15.7	9.6	4.3	3.2	0.9	2.2	1.2
14.....	5.0	17.0	36.2	28.2	14.2	14.3	11.0	4.3	3.1	0.9	2.2	1.2
15.....	5.0	19.4	35.9	24.3	13.1	13.0	13.7	4.2	3.1	1.3	2.2	1.2
16.....	5.1	20.8	35.2	20.6	12.1	11.8	15.2	4.2	2.9	1.5	2.2	1.2
17.....	5.3	21.3	33.8	18.3	11.4	11.0	16.0	4.3	2.8	1.8	1.9	1.3
18.....	5.5	20.2	31.7	16.0	10.4	10.5	14.7	4.3	2.7	1.8	1.8	1.5
19.....	5.7	18.2	29.1	15.6	9.8	10.2	14.2	4.0	2.6	1.8	1.7	1.6
20.....	5.8	17.0	26.0	15.1	9.3	9.8	13.9	3.9	2.5	1.7	1.7	1.7
21.....	5.9	15.5	23.5	14.6	8.9	9.4	13.2	3.9	2.5	1.7	1.5	1.7
22.....	7.6	14.8	21.9	14.2	8.5	8.9	12.3	3.8	2.5	1.7	1.4	1.8
23.....	9.7	15.8	21.5	13.7	8.2	8.3	11.4	3.7	2.4	1.7	1.4	1.9
24.....	17.0	17.5	24.7	13.2	8.0	7.8	10.4	3.7	2.3	1.6	1.4	2.0
25.....	21.5	18.2	28.2	13.1	8.1	7.4	9.5	3.6	2.3	1.6	1.4	2.1
26.....	21.9	17.6	31.3	13.7	9.0	7.0	8.5	3.8	2.2	1.6	1.3	2.1
27.....	22.0	16.5	33.9	14.8	11.2	6.9	7.7	3.7	2.2	1.5	1.3	2.6
28.....	24.8	15.9	36.7	16.1	13.5	7.0	7.1	3.7	2.5	1.5	1.3	3.1
29.....	28.2	16.3	38.4	17.0	14.6	7.5	6.4	3.7	2.5	1.7	1.3	4.0
30.....	30.8	.....	39.1	17.1	14.7	8.0	6.0	3.7	2.5	1.7	1.3	4.6
31.....	31.7	.....	39.3	.....	14.2	.....	5.6	3.7	.....	1.8	.....	5.0
Means.	11.3	18.8	28.8	25.5	15.4	12.7	10.1	4.2	3.0	1.5	1.7	1.8

## OHIO RIVER SYSTEM—OHIO RIVER, MOUNT VERNON, IND.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	Frozen.	19.0	21.9	19.0	13.9	8.6	.....	.....	.....	.....	.....	29.9
2.....	.....	16.9	22.1	19.6	13.6	9.5	.....	.....	.....	.....	.....	31.6
3.....	.....	15.0	22.3	19.3	12.7	12.2	.....	.....	.....	.....	.....	32.3
4.....	.....	13.0	22.3	18.3	12.0	13.1	.....	.....	.....	.....	.....	32.3
5.....	.....	11.7	21.6	17.1	11.6	13.6	.....	.....	.....	.....	.....	31.8
6.....	.....	10.7	21.4	16.5	10.6	13.3	.....	.....	.....	.....	.....	30.5
7.....	.....	10.7	23.2	15.9	9.9	12.5	.....	.....	.....	.....	.....	28.0
8.....	.....	9.4	26.0	15.5	9.4	12.1	.....	.....	.....	.....	.....	25.2
9.....	.....	11.8	28.5	15.0	8.6	12.1	.....	.....	.....	.....	.....	21.6
10.....	.....	16.1	29.6	14.7	8.6	12.3	.....	.....	.....	.....	.....	20.8
11.....	.....	19.7	29.6	14.2	8.6	12.3	.....	.....	.....	.....	.....	20.7
12.....	8.5	22.9	28.5	14.0	8.7	11.1	.....	.....	.....	.....	.....	20.6
13.....	8.0	24.1	28.0	13.7	8.7	10.8	.....	.....	.....	.....	.....	20.5
14.....	9.5	25.4	28.0	13.6	8.2	9.9	.....	.....	.....	.....	.....	20.2
15.....	11.4	26.8	28.0	13.1	7.7	11.3	.....	.....	.....	.....	.....	19.3
16.....	12.2	28.4	27.7	12.0	7.8	13.1	.....	.....	.....	.....	.....	18.0
17.....	12.5	29.7	27.2	12.5	7.8	14.4	.....	.....	.....	.....	.....	16.6
18.....	12.8	30.4	25.6	12.4	7.7	14.0	.....	.....	.....	.....	.....	15.0
19.....	14.2	30.6	23.8	12.6	7.7	13.2	.....	.....	.....	.....	.....	13.6
20.....	16.2	30.2	22.0	12.8	7.8	12.2	.....	.....	.....	.....	.....	12.3
21.....	18.2	29.2	20.5	13.2	6.8	11.0	.....	.....	.....	.....	.....	11.0
22.....	19.2	28.6	19.6	13.6	6.5	9.8	.....	.....	.....	.....	.....	10.3
23.....	22.4	26.6	19.0	12.5	6.2	9.5	.....	.....	.....	.....	.....	9.5
24.....	24.0	25.2	19.9	12.2	5.5	10.7	.....	.....	.....	.....	.....	8.9
25.....	24.9	23.8	22.8	12.2	5.6	12.5	.....	.....	.....	.....	.....	8.7
26.....	25.0	23.0	25.0	12.3	6.8	13.2	.....	.....	.....	.....	.....	8.5
27.....	24.7	22.2	25.6	12.9	7.9	13.2	.....	.....	.....	.....	.....	8.2
28.....	24.2	21.4	25.6	13.5	8.2	12.4	.....	.....	.....	.....	.....	8.0
29.....	23.4	.....	25.0	13.9	8.5	12.1	.....	.....	.....	.....	.....	7.6
30.....	22.6	.....	23.0	14.4	8.3	12.0	.....	.....	.....	.....	.....	7.7
31.....	21.2	.....	20.5	.....	8.2	.....	.....	.....	.....	.....	.....	8.1
Means.	17.8	21.5	24.3	14.4	8.7	11.9	.....	.....	.....	.....	.....	18.0

## OHIO RIVER SYSTEM—OHIO RIVER, MOUNT VERNON, IND.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	8.7	10.0			41.6				7.9			
2.....	9.5	10.3			41.7				7.9			
3.....	10.4	10.6			41.4				7.9			
4.....	10.8	10.8			40.7				7.9			
5.....	11.7	11.0			39.8				8.1			7.5
6.....	11.8	11.5			38.0				8.6			8.2
7.....	11.6	12.0							8.8			8.4
8.....	11.0	12.1							8.6			9.1
9.....	10.4	12.5							8.4			8.1
10.....	9.8	13.6							8.0			7.8
11.....	9.0	14.4							7.6			7.7
12.....	8.1	15.0	15.3						7.3			7.6
13.....	8.6	14.4	21.0						7.2			8.6
14.....	9.2	13.5	23.0						7.3			10.4
15.....	10.4	12.6	23.3						7.2			11.8
16.....	11.4	12.0	23.5						7.2			12.2
17.....	13.8	11.7	25.0						7.2			13.1
18.....	16.4	11.1	26.5						7.1			15.7
19.....	19.2	10.6	27.7						6.6			17.3
20.....	20.4		28.0						6.0			20.6
21.....	21.0		27.3						5.9			26.9
22.....	20.0		26.0						6.8			27.0
23.....	18.0		24.5						8.7			27.4
24.....	16.7		22.7	32.4					9.2			28.0
25.....	14.2		21.0	34.9					10.1			25.5
26.....	12.8		19.2	37.0					10.2			22.3
27.....	12.0		18.1	38.8					10.3			20.0
28.....	11.1		18.1	39.9					9.9			16.0
29.....	10.8		18.6	40.6					9.3			14.8
30.....	10.4		19.0	41.2					8.8			13.5
31.....	10.0		19.5									13.0
Means.	12.6	12.1	22.4						8.1			15.1
<b>1902</b>												
1.....	14.1	24.9	14.4		13.1			10.4				8.6
2.....	16.2	29.4	18.1		12.9			10.7				9.8
3.....	21.3	32.8	25.6		13.2			10.8				10.8
4.....	26.9	34.6	29.4		13.7			10.8				11.8
5.....	29.2	35.0	31.9		14.7			10.7				13.1
6.....	29.5	35.1	33.6		14.8			10.2				14.9
7.....	28.8	34.8	35.0		14.4			10.0				16.0
8.....	26.8	32.3	36.2		13.9			9.9				16.2
9.....	23.8	30.3	37.1		12.8			10.0				15.5
10.....	20.1	25.8	37.9		11.6			10.4				15.0
11.....	18.0	22.7	38.4		10.7			10.2				14.8
12.....	17.6	19.8	38.6		9.8			10.0				14.6
13.....	15.5	17.2	38.6		9.5			9.6				14.5
14.....	12.1	15.7	38.4		9.0			8.9				15.2
15.....	9.8	13.5	38.0		8.7			8.3				16.6
16.....	8.7	10.7	37.0		8.5			7.8				21.7
17.....	7.8	9.6	36.9		8.5			7.4				27.0
18.....	7.5	7.7	36.4		8.4			6.9				33.1
19.....	7.1	7.0	35.8		8.0			6.5				35.2
20.....			34.9		7.8			6.4				38.0
21.....			34.0		7.4			6.2				38.6
22.....			33.1		7.1			5.9				38.6
23.....			32.0		6.8			5.8				38.6
24.....			30.0		6.7			5.7				38.4
25.....			27.2		6.7							38.1
26.....		7.7	24.2		7.0							37.0
27.....		9.9	22.0		14.5							34.3
28.....	7.2	12.2	19.6		15.8							31.9
29.....	10.5		17.5		14.6						6.8	30.9
30.....	16.4		16.5		14.1						7.7	26.4
31.....	20.3		16.0		13.5							24.4
Means.	17.2	21.3	30.5		10.9			8.7				23.9



## OHIO RIVER SYSTEM—OHIO RIVER, MOUNT VERNON, IND.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.											1.0	0.6
2.											1.1	0.6
3.											1.2	0.7
4.											1.2	0.7
5.											1.3	0.7
6.											1.2	0.7
7.											1.0	0.7
8.											0.9	0.7
9.											0.8	0.7
10.											0.9	0.8
11.											1.5	0.7
12.											1.6	0.6
13.											1.6	0.6
14.											1.6	0.5
15.										0.7	1.6	0.5
16.										1.0	1.5	0.5
17.										1.2	1.4	0.5
18.										1.3	1.3	0.5
19.										1.3	1.1	0.5
20.										1.3	1.0	0.5
21.										1.2	0.9	0.5
22.										1.1	0.9	0.5
23.										1.1	0.9	0.5
24.										1.1	0.8	0.6
25.										1.0	0.7	1.3
26.										1.1	0.7	1.4
27.										1.1	0.7	1.6
28.										1.1	0.6	1.6
29.										1.1	0.6	2.0
30.										1.1	0.6	3.4
31.										1.1		4.0
Means.										1.1	1.1	1.0

## OHIO RIVER SYSTEM—OHIO RIVER, PADUCAH, KY.

1900												
1.	13.9	17.6	22.4	24.2	19.0	7.6	26.2	11.1	3.6	2.0	3.5	26.8
2.	12.5	16.0	22.4	22.3	17.7	8.0	26.1	11.4	4.0	2.0	3.7	28.4
3.	10.9	14.3	22.3	20.9	16.5	9.0	25.1	12.0	4.3	1.9	3.5	29.5
4.	9.7	12.8	22.3	19.7	15.3	9.7	23.3	12.1	4.4	1.8	3.6	29.8
5.	9.0	11.2	22.0	18.8	14.3	11.4	21.3	11.8	4.4	1.7	4.0	29.4
6.	8.3	10.1	21.8	18.3	13.2	13.1	19.0	11.0	4.3	1.6	4.0	28.0
7.	7.6	9.0	22.0	17.8	12.3	14.5	16.8	10.2	4.0	1.8	3.8	26.2
8.	7.0	9.7	23.2	17.3	11.5	15.6	14.4	9.5	3.7	2.1	3.5	24.0
9.	6.4	13.6	25.4	16.9	10.8	16.1	12.9	9.0	3.5	2.7	3.2	22.0
10.	5.9	16.3	27.7	16.6	10.1	16.3	11.3	8.5	3.3	3.0	2.9	19.8
11.	5.6	19.3	29.3	16.5	9.7	16.1	10.3	7.2	3.1	3.1	2.8	18.5
12.	5.7	21.5	30.0	16.9	9.4	15.7	9.5	6.7	2.9	3.1	2.7	17.9
13.	5.9	23.6	30.3	18.0	9.1	15.2	8.8	5.6	2.7	3.1	2.7	17.8
14.	7.4	24.2	30.5	19.0	8.8	14.5	8.1	4.9	2.4	3.2	2.6	17.6
15.	9.7	25.7	30.9	19.4	8.6	15.6	7.6	4.4	2.2	4.2	2.5	17.2
16.	11.9	27.0	30.9	19.3	8.4	17.7	7.1	4.0	2.0	4.6	2.4	16.2
17.	13.4	28.2	30.7	18.8	8.2	19.0	6.7	3.7	1.9	4.3	2.2	15.3
18.	14.2	29.2	29.4	17.9	8.0	19.4	6.3	3.6	1.7	3.7	2.1	14.1
19.	14.4	29.9	28.5	18.0	7.2	18.8	5.9	3.4	1.6	3.2	2.1	12.9
20.	15.6	30.2	27.3	19.4	7.0	17.6	5.6	3.3	1.6	2.7	2.3	11.6
21.	17.2	30.3	25.8	20.9	6.9	16.3	5.5	3.2	1.7	2.2	3.3	10.5
22.	18.5	29.7	24.5	21.9	6.7	15.3	5.7	3.4	1.8	2.1	7.3	9.5
23.	20.0	28.6	23.8	23.0	6.4	15.8	6.1	3.6	2.0	1.8	10.5	9.0
24.	21.4	27.2	23.4	23.6	6.3	16.2	6.4	3.7	2.4	1.7	13.1	8.5
25.	22.3	25.2	23.5	23.9	6.1	16.9	6.7	3.7	2.6	1.8	16.0	8.8
26.	22.9	24.2	25.0	24.0	6.4	18.8	7.9	3.6	2.6	1.8	18.7	8.5
27.	22.6	23.2	26.5	23.6	6.8	21.0	8.0	3.6	2.5	1.9	20.3	8.0
28.	21.8	22.5	27.4	22.8	7.1	22.9	8.1	3.7	2.3	1.9	21.9	8.2
29.	21.2		27.4	21.6	7.5	24.5	8.5	3.6	2.2	1.9	23.5	9.2
30.	20.2		26.6	20.4	7.6	25.5	9.4	3.4	2.1	2.1	24.7	9.3
31.	19.2		25.4		7.5		10.6	3.4		2.8		9.5
Means.	13.6	21.4	26.1	20.1	9.7	16.1	11.5	6.2	2.8	2.5	7.3	16.8

## OHIO RIVER SYSTEM—OHIO RIVER, PADUCAH, KY.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	9.7	11.9	6.9	22.2	39.4	24.9	21.3	4.4	13.4	6.8	2.3	2.3
2.....	9.8	11.6	6.7	23.7	39.2	24.2	21.4	4.3	12.6	6.7	2.2	2.6
3.....	9.9	12.0	6.4	25.8	38.8	23.6	20.5	4.1	11.4	6.7	2.1	2.6
4.....	10.2	13.3	6.4	27.4	38.2	23.3	19.2	3.9	10.6	6.2	2.1	2.5
5.....	10.7	14.8	6.4	28.3	37.3	23.4	17.7	3.5	10.0	5.7	2.0	2.6
6.....	10.9	16.6	6.2	29.0	36.3	23.5	15.9	3.4	9.7	5.2	1.9	3.5
7.....	11.1	17.7	5.9	29.2	34.8	23.4	14.3	3.1	9.5	4.9	1.8	4.5
8.....	11.0	18.3	5.8	29.4	32.9	22.6	12.8	2.9	9.5	4.6	1.8	5.0
9.....	10.6	18.5	6.0	29.9	30.0	21.5	11.7	2.8	9.5	4.5	1.8	5.5
10.....	10.0	18.3	8.0	30.6	26.1	20.6	10.8	2.8	9.2	4.5	1.8	5.6
11.....	9.6	17.9	10.5	31.1	21.9	19.7	10.1	2.7	8.5	4.4	1.7	5.3
12.....	9.9	17.6	12.6	31.2	19.0	18.7	9.5	2.6	7.9	4.3	1.9	5.2
13.....	11.8	17.1	17.5	30.8	15.3	17.6	8.7	3.8	7.6	5.1	1.8	5.2
14.....	14.2	16.3	22.4	30.1	13.3	16.8	8.8	5.1	6.7	5.2	1.7	5.5
15.....	16.6	15.2	24.8	29.3	12.0	16.1	8.9	5.7	6.7	4.7	1.7	9.0
16.....	18.6	14.2	25.7	28.5	11.3	15.5	8.7	6.3	7.1	4.4	1.7	11.0
17.....	20.2	13.2	25.7	27.8	11.0	15.1	7.8	7.3	7.4	4.2	1.6	14.1
18.....	21.5	12.2	25.6	27.6	10.8	14.5	7.3	9.4	8.5	4.0	1.5	16.7
19.....	22.9	12.1	25.7	27.2	11.0	13.8	7.1	13.1	9.5	4.0	1.5	19.4
20.....	24.1	11.6	25.7	27.0	11.2	13.1	6.5	15.8	10.3	4.0	1.5	22.5
21.....	24.2	10.9	25.4	27.5	11.8	12.7	6.0	17.6	11.0	3.9	1.5	24.8
22.....	23.2	10.4	24.9	28.5	12.2	12.6	5.6	19.0	11.5	3.7	1.6	26.2
23.....	21.2	9.7	24.1	30.1	12.5	12.6	5.3	20.1	11.8	3.6	1.7	27.5
24.....	18.8	9.2	23.1	32.0	12.9	14.6	5.0	21.1	12.0	3.4	1.7	26.9
25.....	17.2	8.7	22.2	33.8	13.9	16.0	5.0	21.8	11.8	3.2	1.7	25.3
26.....	16.0	7.8	21.4	35.3	15.8	16.8	5.0	22.4	11.3	3.0	1.5	23.2
27.....	15.0	7.0	20.2	36.5	17.3	17.4	5.1	22.3	10.5	2.9	1.5	20.7
28.....	14.7	6.3	19.1	37.6	20.3	17.9	5.0	21.5	9.6	2.8	1.5	18.5
29.....	13.7		18.8	38.4	23.2	18.8	4.9	20.1	8.6	2.6	1.8	16.5
30.....	13.0		19.5	39.1	24.9	20.7	4.8	18.5	7.5	2.4	2.1	15.9
31.....	12.4		21.0		25.2		4.6	16.5		2.4		16.5
<b>Means.</b>	<b>14.9</b>	<b>13.2</b>	<b>16.8</b>	<b>30.2</b>	<b>21.9</b>	<b>18.4</b>	<b>9.8</b>	<b>10.6</b>	<b>9.7</b>	<b>4.3</b>	<b>1.8</b>	<b>12.7</b>
<b>1902</b>												
1.....	18.2	26.5	16.1	30.1	14.3	12.7	8.2	11.1	4.9	2.9	3.4	10.2
2.....	20.2	Frozen.	19.0	31.2	15.4	12.8	10.0	10.6	5.0	3.4	3.2	11.0
3.....	22.6		22.0	32.3	15.6	12.6	12.8	10.4	4.7	3.9	3.0	12.4
4.....	25.5	33.0	25.9	34.0	15.9	12.0	15.4	9.9	4.3	5.0	2.8	13.4
5.....	28.0	33.9	29.0	34.9	16.2	11.3	17.6	9.5	4.0	5.1	2.6	14.0
6.....	29.5	34.6	31.3	35.3	16.5	9.8	18.3	9.2	3.9	5.1	2.5	15.3
7.....	30.2	34.9	33.0	35.8	16.5	10.2	19.5	8.7	4.0	5.1	2.4	16.4
8.....	30.1	34.9	34.3	35.3	15.6	9.7	19.5	8.2	4.2	5.3	2.3	17.9
9.....	29.4	34.4	35.3	34.7	14.3	9.2	19.4	8.0	4.0	5.7	2.2	18.0
10.....	28.2	33.0	36.6	33.6	13.0	8.6	19.2	8.0	3.3		2.0	17.6
11.....	26.6	30.2	37.7	31.8	11.8	8.1	18.9	6.9	2.6	6.6	2.0	17.0
12.....	24.4	26.5	38.4	28.9	10.5	7.7	18.6	6.8	2.2	6.9	1.9	16.4
13.....	21.4	22.7	39.2	27.1	9.8	7.3	18.2	6.6	2.0	6.9	1.9	16.9
14.....	17.5	19.7	39.6	22.7	9.3	7.5	17.6	6.4	1.9	6.6	1.9	17.9
15.....	14.3	17.3	39.7	21.7	8.8	7.5	17.0	6.2	1.8	5.9	2.0	18.5
16.....	12.1	14.9	39.7	20.9	8.3	7.5	16.4	6.4	1.5	5.4	2.3	24.7
17.....	10.5	13.0	39.0	21.6	8.0	7.5	15.7	6.4	1.4	5.2	2.7	28.4
18.....	9.4	11.4	38.2	22.5	7.8	7.5	15.2	6.5	1.4	5.4	2.7	31.2
19.....	8.5	10.5	36.9	23.2	7.6	7.3	15.0	5.2	1.5	5.3	2.5	32.7
20.....	8.3	9.7	35.7	23.3	7.3	7.1	15.0	4.9	1.5	5.2	2.5	33.4
21.....	8.0	9.0	34.6	23.3	7.1	6.9	15.4	4.6	1.5	5.0	2.6	33.9
22.....	8.1	8.7	33.7	22.6	6.9	6.6	15.2	4.6	1.5	4.8	2.8	34.4
23.....	8.2	8.3	33.0	21.4	7.0	6.3	14.7	4.6	1.4	5.2	3.0	35.0
24.....	8.8	8.4	31.6	19.8	6.8	6.2	14.1	4.6	1.4	5.5	3.3	35.4
25.....	9.4	9.0	30.1	17.9	6.8	6.2	13.8	4.7	1.4	5.9	3.7	35.2
26.....	10.1	10.2	28.0	15.8	6.8	6.5	13.4	4.8	1.4	5.9	4.3	35.0
27.....	10.8	11.6	25.9	14.1	8.6	6.6	13.2	4.8	1.5	5.8	5.0	34.3
28.....	11.0	13.9	23.9	13.5	11.5	6.7	12.9	4.7	1.8	5.4	6.5	33.0
29.....	11.5		24.0	12.8	12.7	6.9	12.5	4.6	2.1	4.9	8.3	31.9
30.....	Frozen.		26.8	13.0	12.7	7.2	12.2	4.5	2.5	4.4	9.4	30.0
31.....	23.3		28.5		12.7		11.8	4.4		3.9		28.0
<b>Means.</b>	<b>17.5</b>	<b>20.0</b>	<b>31.8</b>	<b>25.2</b>	<b>11.0</b>	<b>8.3</b>	<b>15.4</b>	<b>6.7</b>	<b>2.6</b>	<b>5.3</b>	<b>3.3</b>	<b>24.2</b>

## OHIO RIVER SYSTEM—OHIO RIVER, PADUCAH, KY.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	26.2	16.3	40.0	32.3	28.3	13.1	10.3	7.2	3.7	3.7	3.5	6.1
2.....	24.5	17.8	38.5	31.8	25.4	15.0	10.0	7.0	3.7	3.8	3.3	5.9
3.....	23.8	18.5	38.0	31.1	23.2	17.2	10.1	6.9	3.7	3.8	3.0	5.4
4.....	23.4	20.0	38.0	30.4	21.1	19.6	10.5	6.7	4.0	3.7	2.7	4.9
5.....	23.0	23.6	38.3	29.7	19.6	21.9	10.8	6.3	4.6	3.7	2.7	4.5
6.....	23.7	27.4	39.0	28.4	18.4	24.5	10.6	6.1	4.7	3.7	2.7	4.0
7.....	24.3	30.6	40.2	27.4	17.3	26.7	10.3	5.9	4.6	3.7	2.7	3.9
8.....	24.5	33.1	41.9	26.6	16.1	28.0	9.9	5.8	4.4	3.8	2.6	3.7
9.....	25.0	34.7	42.9	26.5	14.9	28.8	10.1	6.2	4.4	3.8	2.6	3.5
10.....	25.2	36.1	44.2	26.6	14.0	29.2	10.0	7.0	4.9	3.9	2.6	3.2
11.....	25.4	37.3	45.5	27.2	13.0	29.4	9.9	7.7	5.7	4.0	2.6	2.8
12.....	25.5	38.2	46.5	29.2	12.2	29.4	9.8	7.9	6.0	4.2	2.6	2.6
13.....	25.1	38.7	47.1	30.0	11.6	29.2	9.6	7.8	6.0	5.0	2.6	2.5
14.....	24.4	39.1	47.5	31.8	11.0	29.0	9.0	7.6	6.0	5.9	2.5	2.4
15.....	23.1	39.6	47.6	33.5	10.6	28.8	8.8	7.3	6.3	6.0	2.3	2.3
16.....	21.5	40.7	47.6	35.2	10.4	28.3	8.7	7.0	6.5	5.9	2.0	2.1
17.....	20.1	41.0	47.5	36.4	10.6	27.6	8.7	6.6	6.5	5.6	2.0	1.9
18.....	19.0	40.8	47.3	37.2	11.1	26.7	9.0	6.3	6.4	5.3	2.0	1.6
19.....	17.9	40.4	46.9	37.7	10.9	25.5	9.5	5.9	6.3	5.0	1.9	1.6
20.....	17.0	40.4	46.4	38.2	10.8	23.9	9.8	5.7	6.0	4.9	1.9	1.8
21.....	16.2	40.6	45.6	38.6	10.8	21.6	9.7	5.7	5.8	4.8	2.4	2.4
22.....	15.1	40.8	44.5	38.8	10.7	20.0	9.5	5.7	5.5	5.1	3.0	3.1
23.....	14.3	41.2	43.2	38.9	10.4	18.0	9.0	5.5	5.2	5.4	3.1	5.4
24.....	13.7	41.7	41.8	38.7	10.0	16.3	8.6	5.4	4.8	5.5	3.3	6.4
25.....	13.0	42.0	40.2	38.2	9.5	14.9	8.2	5.2	4.5	5.4	3.5	6.5
26.....	12.5	42.1	38.4	37.2	9.1	13.8	8.1	4.9	4.3	5.1	3.8	6.8
27.....	12.2	41.7	36.4	36.6	9.2	13.1	8.0	4.4	4.0	4.9	4.0	7.1
28.....	12.1	41.0	34.5	35.3	9.8	12.7	8.2	4.3	3.9	4.7	4.0	7.5
29.....	12.5	.....	33.3	33.4	10.9	12.1	8.2	4.0	3.7	4.5	5.1	7.7
30.....	13.6	.....	32.6	31.1	11.9	11.3	7.8	3.8	3.6	4.0	6.0	7.5
31.....	15.1	.....	32.4	.....	12.5	.....	7.4	3.7	.....	3.7	.....	7.4
<b>Means.</b>	<b>19.8</b>	<b>35.2</b>	<b>41.7</b>	<b>33.1</b>	<b>13.7</b>	<b>21.9</b>	<b>9.3</b>	<b>6.0</b>	<b>5.0</b>	<b>4.6</b>	<b>3.0</b>	<b>4.3</b>
<b>1904</b>												
1.....	7.4	25.3	16.3	42.6	25.8	12.5	9.9	5.0	3.2	2.7	0.2	0.4
2.....	7.5	25.2	16.5	43.6	26.4	13.1	10.9	4.7	3.0	2.8	0.2	0.4
3.....	7.7	24.8	17.0	44.3	26.9	14.4	11.0	4.4	2.9	2.7	0.2	0.4
4.....	7.6	23.8	17.2	44.7	27.5	16.3	11.0	4.2	3.0	2.6	0.3	0.5
5.....	7.4	21.8	17.5	44.6	28.0	18.0	10.8	4.0	2.9	2.4	0.3	0.5
6.....	7.1	19.0	17.6	44.0	28.4	18.9	10.5	4.0	2.7	2.5	0.3	0.5
7.....	6.8	16.7	18.4	43.4	28.4	19.5	10.3	3.9	2.6	2.4	0.3	0.6
8.....	6.6	14.7	19.6	42.5	27.8	20.0	10.0	3.9	2.6	1.9	0.3	0.7
9.....	6.4	13.5	21.8	41.5	26.8	20.3	10.4	3.8	2.6	1.4	0.3	1.0
10.....	6.1	13.5	24.1	40.6	25.6	20.6	10.8	3.7	2.5	1.0	0.5	1.7
11.....	5.7	14.5	26.5	39.7	24.2	20.7	11.6	3.7	2.4	0.9	0.5	2.1
12.....	5.2	15.4	28.3	39.0	22.9	20.1	13.2	3.7	2.4	0.8	0.5	2.6
13.....	4.8	15.9	29.8	38.0	21.6	19.4	14.4	3.7	2.2	0.7	0.5	2.8
14.....	4.6	16.2	31.0	36.8	20.3	18.2	15.0	3.7	2.2	0.6	0.7	2.9
15.....	4.3	16.7	31.9	35.2	19.0	16.9	15.4	3.8	2.2	0.5	0.7	3.0
16.....	4.2	17.7	32.2	33.0	17.8	15.6	15.5	3.8	2.1	0.4	0.7	2.9
17.....	4.2	18.6	32.3	30.5	16.5	14.7	15.6	3.8	2.0	0.4	0.7	2.7
18.....	4.2	19.1	32.1	27.9	15.4	14.0	15.2	3.8	1.9	0.4	0.6	2.3
19.....	4.5	19.0	31.5	25.5	14.3	13.6	14.4	3.8	1.9	0.4	0.6	2.1
20.....	4.7	18.4	30.3	23.5	13.4	13.5	13.6	3.8	2.5	0.5	0.6	1.9
21.....	5.0	16.8	28.8	21.8	12.9	13.2	13.1	3.8	2.2	0.6	0.6	1.8
22.....	6.8	15.5	27.1	20.2	12.4	12.8	12.8	3.8	1.9	0.6	0.5	1.7
23.....	9.0	14.4	26.5	19.1	11.9	12.5	12.1	3.8	1.9	0.5	0.4	1.6
24.....	10.8	14.3	26.6	18.2	11.2	12.4	11.3	3.8	1.9	0.3	0.4	1.6
25.....	14.0	14.7	28.5	18.5	11.0	12.0	10.2	3.7	1.9	0.3	0.4	1.6
26.....	18.3	15.6	31.9	19.8	10.6	11.4	9.0	3.7	2.0	0.3	0.4	1.6
27.....	20.3	16.0	34.6	21.0	9.8	10.8	8.5	3.6	1.9	0.3	0.4	2.3
28.....	21.8	16.1	36.6	22.5	9.7	10.0	7.8	3.5	2.3	0.3	0.4	5.5
29.....	23.0	16.1	38.4	24.0	10.4	9.5	7.1	3.4	2.2	0.2	0.4	8.2
30.....	23.9	.....	40.0	25.0	11.4	9.4	6.3	3.4	2.3	0.2	0.4	9.8
31.....	24.7	.....	41.3	.....	12.0	.....	5.5	3.3	.....	0.2	.....	10.4
<b>Means.</b>	<b>9.5</b>	<b>17.6</b>	<b>27.5</b>	<b>32.4</b>	<b>18.7</b>	<b>15.1</b>	<b>11.4</b>	<b>3.8</b>	<b>2.3</b>	<b>1.0</b>	<b>0.4</b>	<b>2.5</b>

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—OHIO RIVER, CAIRO, ILL.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	16.3	21.5	26.5	30.8	28.1	16.8	31.4	18.3	9.7	8.2	12.4	29.7
2.....	14.7	20.0	26.3	29.5	26.8	17.2	31.4	18.5	10.1	8.7	12.9	31.0
3.....	13.0	18.3	26.0	28.2	25.6	17.5	30.8	18.7	10.7	9.2	13.0	32.1
4.....	11.3	16.3	25.9	27.2	24.6	17.8	29.8	18.8	11.2	9.6	12.8	32.6
5.....	10.0	14.4	25.8	26.4	23.7	18.8	28.3	18.5	11.4	10.2	12.6	32.5
6.....	9.2	13.1	25.8	25.8	23.0	20.1	26.5	17.9	11.4	11.1	12.7	31.7
7.....	8.5	11.9	26.2	25.4	22.2	20.9	24.7	17.1	11.3	11.6	12.7	30.4
8.....	8.3	11.4	27.8	25.3	21.6	22.0	22.9	16.2	11.2	11.5	12.7	28.7
9.....	8.6	13.2	31.2	25.2	21.3	22.4	21.1	15.4	10.9	11.7	12.9	26.9
10.....	8.4	17.2	33.7	25.3	20.9	22.6	19.6	14.5	10.3	12.0	13.2	25.0
11.....	7.8	20.7	35.3	25.2	20.5	22.5	18.2	13.5	9.7	12.4	13.2	23.4
12.....	8.1	23.7	36.6	25.2	20.2	22.3	17.3	12.4	9.0	12.6	13.0	22.5
13.....	8.5	26.0	37.4	25.6	19.9	21.9	16.5	11.3	8.5	12.4	12.7	22.0
14.....	8.6	27.5	38.1	26.5	19.6	21.3	15.8	10.3	8.0	11.8	12.5	21.8
15.....	10.3	28.3	38.7	27.4	19.5	21.1	15.3	9.4	7.5	11.6	12.3	21.4
16.....	12.8	29.0	39.1	28.1	19.4	23.9	14.8	8.5	7.0	12.0	12.0	20.8
17.....	15.0	29.8	39.2	28.0	18.7	25.6	14.1	7.8	6.5	11.9	11.7	20.0
18.....	16.3	30.5	38.9	27.3	18.0	26.3	13.6	7.4	6.2	11.5	11.5	19.0
19.....	16.9	31.2	38.1	26.5	17.3	25.9	13.4	7.1	6.0	11.0	11.5	17.8
20.....	17.6	31.7	38.9	26.7	16.9	25.0	13.0	6.9	5.9	10.5	11.5	16.5
21.....	19.3	31.9	35.4	27.5	16.8	23.9	12.6	7.2	5.8	10.4	11.8	15.3
22.....	21.1	31.9	33.9	28.6	16.7	22.9	12.5	8.0	5.8	10.0	13.4	14.1
23.....	22.7	31.5	32.7	29.6	16.5	23.0	12.6	9.0	6.1	10.0	16.5	13.1
24.....	24.0	31.2	31.8	30.4	16.3	23.7	13.1	9.7	6.7	10.0	19.0	12.3
25.....	24.7	30.0	31.5	30.9	16.2	24.6	14.1	10.0	7.3	10.3	22.0	11.8
26.....	25.3	29.1	31.8	31.2	16.1	26.1	15.6	10.1	7.7	10.6	23.8	11.5
27.....	25.5	28.1	32.6	31.3	16.2	27.5	16.8	10.1	7.8	11.0	25.1	11.3
28.....	25.3	27.3	33.3	31.0	16.2	28.9	17.1	10.1	8.0	11.2	26.4	11.3
29.....	24.7		33.5	30.3	16.3	30.2	17.2	10.0	7.9	11.4	27.7	11.7
30.....	24.0		33.1	29.3	16.4	31.0	17.3	9.9	7.9	11.5	28.7	12.2
31.....	22.8		32.1		16.4		17.9	9.7		11.8		12.3
<b>Means.</b>	<b>15.8</b>	<b>24.2</b>	<b>32.7</b>	<b>27.9</b>	<b>19.6</b>	<b>23.1</b>	<b>18.9</b>	<b>12.0</b>	<b>8.4</b>	<b>11.0</b>	<b>15.5</b>	<b>20.7</b>
<b>1901</b>												
1.....	12.4	16.0	10.3	29.8	43.1	29.5	28.1	10.0	19.1	10.7	4.4	3.5
2.....	12.3	15.5	10.3	30.8	43.2	29.0	28.4	9.7	17.3	10.0	4.3	3.7
3.....	12.3	15.4	10.0	32.4	43.1	28.5	28.0	9.6	15.6	9.4	4.2	3.8
4.....	12.4	15.8	9.6	33.8	42.8	28.2	27.0	9.4	14.3	8.9	4.1	3.8
5.....	12.7	17.1	9.1	34.8	42.2	28.4	25.4	9.3	13.4	8.2	4.0	3.7
6.....	13.0	18.8	8.8	35.5	41.4	28.9	23.9	9.0	12.8	7.5	3.7	4.0
7.....	13.1	20.1	9.0	35.9	40.5	29.2	22.1	8.6	12.3	7.0	3.6	5.1
8.....	13.1	20.9	9.1	36.3	39.1	29.0	20.5	8.2	12.1	6.7	3.4	6.2
9.....	12.8	21.3	9.4	36.6	37.0	28.4	19.2	7.8	12.0	6.5	3.3	6.7
10.....	12.4	21.2	10.4	37.2	34.3	27.7	18.2	7.3	11.8	6.3	3.2	7.1
11.....	11.9	20.8	13.9	37.9	30.9	27.0	17.5	7.0	11.3	6.3	3.2	7.2
12.....	11.7	20.4	17.1	38.6	27.6	26.2	17.2	6.7	11.0	6.5	3.1	7.0
13.....	12.1	19.9	21.8	38.8	24.6	25.2	16.9	6.6	10.5	7.3	3.2	7.0
14.....	15.2	19.4	27.3	38.6	22.3	24.4	16.3	7.9	9.8	7.8	3.2	8.1
15.....	18.3	18.7	30.5	38.3	20.8	23.8	15.8	8.9	9.0	7.4	3.1	11.9
16.....	20.4	17.8	31.9	37.7	19.7	23.4	15.5	9.5	8.8	6.8	3.1	13.5
17.....	22.3	16.9	32.3	37.2	19.0	23.2	15.2	10.4	9.2	6.4	3.1	15.4
18.....	23.5	16.1	32.3	36.8	18.5	22.9	14.8	11.5	9.7	6.1	3.0	17.2
19.....	24.8	15.4	32.3	36.8	18.3	22.4	14.3	14.3	10.5	5.9	3.0	19.3
20.....	25.8	14.8	32.3	36.7	18.3	21.6	13.8	17.5	11.6	5.9	3.0	21.6
21.....	26.8	14.4	32.1	36.7	18.5	20.9	13.2	19.7	12.7	6.0	2.9	23.9
22.....	26.4	13.8	31.8	37.0	18.8	20.5	12.9	21.2	13.6	6.0	2.9	25.9
23.....	25.2	13.2	31.3	37.5	18.9	20.5	12.7	22.4	14.4	6.0	3.0	27.3
24.....	23.3	12.4	31.0	38.5	19.1	21.2	12.5	23.4	15.2	5.9	3.0	27.6
25.....	21.6	11.8	30.6	39.5	19.5	22.6	12.2	24.2	15.6	5.7	3.0	26.9
26.....	20.4	11.1	30.2	40.5	20.4	24.0	11.7	24.9	15.3	5.5	3.0	25.3
27.....	19.5	10.4	29.6	41.2	21.7	24.8	11.4	25.1	14.5	5.2	2.9	23.5
28.....	18.8	10.4	28.8	41.8	23.8	25.4	11.1	24.8	13.6	5.0	2.9	21.6
29.....	18.0		28.3	42.4	26.5	26.1	10.8	23.8	12.5	4.8	2.9	19.7
30.....	17.2		28.3	42.9	28.6	27.2	10.8	22.5	11.5	4.7	3.1	18.4
31.....	16.6		28.9		29.5		10.4	20.9		4.5		18.0
<b>Means.</b>	<b>17.6</b>	<b>16.4</b>	<b>22.5</b>	<b>37.3</b>	<b>28.1</b>	<b>25.3</b>	<b>17.0</b>	<b>14.3</b>	<b>12.7</b>	<b>6.7</b>	<b>3.3</b>	<b>14.0</b>

## DESCRIPTION OF RIVER GAGES, ETC.

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## OHIO RIVER SYSTEM—OHIO RIVER, CAIRO, ILL.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	18.9	25.4	18.4	33.5	19.1	23.4	21.2	25.0	18.8	13.0	13.2	18.7
2.....	20.7	28.1	20.5	34.6	20.4	23.2	22.5	24.4	18.9	14.3	12.4	19.7
3.....	22.9	30.5	23.1	35.7	21.0	23.0	24.8	23.8	18.6	15.1	11.7	20.8
4.....	25.1	32.2	26.6	37.0	21.3	22.7	27.3	23.2	18.0	15.7	11.1	21.6
5.....	27.6	33.5	29.6	38.1	21.9	22.8	29.3	22.5	17.7	16.5	10.7	21.9
6.....	29.4	34.3	32.3	38.8	22.5	22.7	30.5	21.9	17.8	17.0	10.2	22.5
7.....	30.5	34.8	34.2	39.2	22.7	22.3	31.0	21.3	18.0	17.3	9.8	23.5
8.....	30.9	35.1	35.6	39.2	22.2	21.8	30.9	20.8	18.0	17.7	9.7	24.5
9.....	30.8	35.0	36.8	39.0	21.0	21.1	30.6	20.4	17.3	18.5	9.9	25.0
10.....	30.2	34.3	37.9	38.5	19.6	20.4	30.2	20.1	16.5	19.3	10.1	25.0
11.....	29.1	32.7	39.1	37.2	18.1	19.8	29.9	19.9	15.4	19.9	10.4	24.6
12.....	27.6	29.9	40.0	35.2	16.9	19.6	29.6	19.6	14.4	20.0	10.9	24.0
13.....	25.3	26.7	40.6	32.6	16.4	19.8	29.2	19.2	13.6	19.7	11.2	23.7
14.....	22.4	23.6	41.2	29.8	16.3	20.1	28.9	18.6	12.9	19.1	11.3	23.5
15.....	19.3	20.8	41.7	27.7	16.2	20.2	28.8	18.1	12.2	18.4	11.0	23.9
16.....	16.2	18.3	42.1	26.5	16.2	20.3	28.8	17.7	11.5	17.7	10.6	28.3
17.....	13.9	16.2	42.2	26.4	16.0	20.7	28.7	17.2	10.8	17.2	10.6	31.7
18.....	12.1	14.5	41.9	26.9	15.9	20.7	28.5	16.4	10.3	16.8	10.6	34.0
19.....	10.9	13.0	41.4	27.5	15.7	20.5	28.4	15.8	10.0	16.5	10.5	35.4
20.....	10.2	11.8	40.5	27.9	15.5	20.2	28.7	15.5	9.6	16.4	10.5	36.2
21.....	9.8	10.9	39.5	28.0	15.3	19.9	28.9	15.4	9.0	16.3	10.9	36.8
22.....	9.5	10.2	38.5	27.7	15.3	19.6	28.8	15.6	8.6	16.3	11.8	37.3
23.....	9.6	9.9	37.4	26.7	15.2	19.2	28.4	16.3	8.2	16.5	12.8	37.8
24.....	9.9	9.6	36.3	25.4	14.8	18.8	28.0	16.9	7.8	16.9	13.4	38.4
25.....	10.5	9.8	34.9	23.9	14.4	18.6	27.8	17.2	7.5	17.4	13.8	38.8
26.....	11.1	10.9	33.4	22.7	14.6	18.7	27.7	17.4	7.3	17.6	14.0	39.0
27.....	11.9	12.8	31.5	21.2	15.6	18.8	27.4	17.5	7.6	17.5	14.3	39.0
28.....	14.6	15.7	29.7	19.9	18.1	18.9	27.2	17.7	9.1	17.1	15.0	38.5
29.....	16.3		28.7	18.9	20.3	19.2	26.9	17.8	10.6	16.4	16.4	37.5
30.....	18.4		30.3	18.5	22.0	19.9	26.4	18.1	11.8	15.4	17.7	36.0
31.....	22.2		32.2		23.1		25.7	18.5		14.3		34.2
<b>Means.</b>	<b>19.3</b>	<b>22.2</b>	<b>34.8</b>	<b>30.1</b>	<b>18.2</b>	<b>20.6</b>	<b>28.1</b>	<b>19.0</b>	<b>12.9</b>	<b>17.0</b>	<b>11.9</b>	<b>29.7</b>
<b>1903</b>												
1.....	32.3	22.2	43.3	40.2	38.0	26.6	24.0	19.8	15.7	16.1	15.3	11.9
2.....	30.5	23.3	43.0	39.8	35.6	28.2	23.4	19.3	16.1	16.3	15.4	11.7
3.....	29.3	24.0	42.7	39.2	33.3	30.5	23.2	18.9	16.6	16.4	15.2	11.3
4.....	28.3	25.0	42.6	38.6	31.4	32.9	23.3	18.3	17.7	16.3	15.0	10.7
5.....	27.8	27.1	42.8	37.7	29.8	35.1	23.3	17.8	18.5	16.4	14.9	10.0
6.....	28.0	30.5	43.3	37.0	28.6	37.4	22.9	17.6	18.7	16.4	14.7	9.3
7.....	28.4	34.3	44.3	36.5	27.4	39.5	22.4	17.1	18.5	16.5	14.5	8.7
8.....	28.8	36.8	45.3	36.1	26.4	41.0	21.8	16.7	18.0	16.8	14.3	8.0
9.....	29.3	38.2	46.4	36.0	25.3	42.0	21.5	17.0	17.6	17.2	14.5	7.6
10.....	29.4	39.2	47.7	36.0	24.4	42.7	21.3	18.0	17.6	17.6	14.9	7.2
11.....	29.5	40.0	48.9	36.2	23.6	43.1	21.2	18.9	18.0	18.5	15.0	6.9
12.....	29.4	40.7	49.7	36.6	23.0	43.3	21.2	19.3	18.1	19.4	15.0	6.5
13.....	29.1	41.1	50.2	37.6	22.4	43.4	21.0	19.5	18.2	20.2	14.6	6.1
14.....	28.5	41.5	50.5	39.1	21.9	43.3	20.5	19.3	18.8	20.5	14.3	5.9
15.....	27.4	42.0	50.6	40.7	21.4	43.1	19.9	19.2	19.7	20.5	13.7	5.4
16.....	26.0	42.9	50.6	42.1	20.9	42.8	19.8	19.0	20.2	20.3	13.3	4.7
17.....	24.7	43.5	50.6	43.2	20.7	42.2	19.9	18.9	20.3	20.0	12.8	3.7
18.....	23.4	43.5	50.5	44.0	21.1	41.3	20.2	18.8	20.6	19.6	12.4	3.4
19.....	22.5	43.3	50.3	44.5	22.0	40.0	21.0	18.4	20.6	19.1	12.1	3.1
20.....	21.8	43.0	50.1	44.9	22.9	38.4	21.9	18.2	20.2	18.5	11.7	2.9
21.....	21.2	42.6	49.8	45.1	23.5	36.4	22.2	18.2	20.0	18.1	11.4	3.6
22.....	20.6	42.7	49.3	45.2	23.6	34.2	22.0	18.3	19.8	17.9	11.5	4.5
23.....	20.0	42.8	48.7	45.2	23.3	32.3	21.4	18.4	19.4	17.8	11.5	6.2
24.....	19.3	43.5	48.0	45.2	22.9	30.6	21.0	18.2	18.7	17.6	11.4	8.5
25.....	18.8	43.8	47.2	45.0	22.5	29.2	20.8	17.8	18.0	17.3	11.6	9.6
26.....	18.2	43.9	46.2	44.5	22.1	28.1	20.7	17.2	17.3	17.0	11.7	9.9
27.....	17.7	44.0	45.0	43.9	22.2	27.4	20.9	16.6	16.7	16.7	11.4	10.6
28.....	17.4	43.8	43.6	43.0	23.3	26.9	21.3	16.2	16.2	16.4	11.0	11.2
29.....	17.5		42.3	41.8	24.6	26.0	21.4	15.8	16.0	16.0	10.9	11.6
30.....	18.6		41.3	40.1	25.5	25.0	20.9	15.5	15.9	15.8	11.5	11.6
31.....	20.6		40.7		25.8		20.4	15.4		15.5		11.5
<b>Means.</b>	<b>24.7</b>	<b>38.2</b>	<b>46.6</b>	<b>40.8</b>	<b>25.1</b>	<b>35.8</b>	<b>21.5</b>	<b>18.0</b>	<b>18.3</b>	<b>17.7</b>	<b>13.2</b>	<b>7.9</b>

\* Maximum stage, 31 ft.

b Maximum stage, 39.1.

c 43.6 at 5 p. m.

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—OHIO RIVER, CAIRO, ILL.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	11.7	30.0	22.3	47.6	40.0	24.5	23.9	16.7	11.4	12.1	8.8	6.0
2.....	12.0	30.1	22.3	48.2	40.5	25.8	24.8	15.9	10.7	12.6	9.2	5.9
3.....	12.2	29.5	22.3	48.7	41.0	27.4	25.1	15.3	10.0	12.9	9.4	5.7
4.....	12.3	28.5	22.5	49.0	41.4	29.1	24.9	14.7	9.5	12.7	9.4	5.7
5.....	12.0	27.1	22.7	49.1	41.9	30.4	24.6	14.2	9.3	12.4	9.4	5.6
6.....	11.7	25.2	22.9	48.9	42.0	31.2	24.3	13.8	9.0	12.1	9.4	5.5
7.....	11.1	23.3	23.5	48.5	41.7	32.2	24.0	13.6	9.2	11.5	9.2	5.5
8.....	10.6	21.6	24.5	47.9	41.0	33.3	23.6	13.2	9.2	10.7	9.1	5.4
9.....	10.4	20.2	26.1	47.2	40.0	34.0	23.5	12.8	9.0	10.1	9.0	5.4
10.....	10.2	19.6	28.1	46.5	38.7	<sup>a</sup> 34.2	24.2	12.3	8.6	9.5	8.9	5.4
11.....	9.8	19.9	30.2	46.0	37.4	34.1	25.5	11.8	8.2	9.1	8.8	5.8
12.....	9.2	20.9	32.0	45.6	36.2	33.6	27.2	11.5	8.0	8.7	8.8	6.1
13.....	8.6	21.8	33.4	45.2	34.9	32.8	28.6	11.2	8.0	8.3	8.7	6.5
14.....	8.2	22.4	34.6	44.7	33.5	31.7	29.4	10.9	8.0	8.0	8.7	6.7
15.....	7.8	22.8	35.5	44.0	32.1	30.5	29.7	10.8	8.0	7.8	8.7	6.7
16.....	7.6	23.5	36.0	42.7	30.7	29.4	29.6	11.2	7.9	7.5	8.6	6.5
17.....	7.6	24.3	36.2	41.2	29.4	28.6	29.3	11.0	7.6	7.3	8.4	5.9
18.....	7.8	24.8	36.2	39.3	28.3	28.1	28.6	10.8	7.4	7.1	8.3	5.4
19.....	7.9	24.9	36.0	37.4	27.2	27.7	27.6	11.0	7.4	7.0	8.1	4.8
20.....	8.3	24.4	35.5	35.9	26.5	27.7	26.8	11.2	8.4	7.0	8.0	4.3
21.....	9.0	23.6	34.6	34.5	26.2	27.4	26.3	11.3	10.2	6.9	7.8	3.7
22.....	10.0	22.5	33.6	33.1	25.8	27.1	25.8	11.9	11.1	6.9	7.6	3.5
23.....	13.0	21.6	32.8	32.0	25.2	26.9	25.1	12.8	11.7	6.9	7.4	3.4
24.....	16.4	21.0	32.6	31.3	24.4	26.7	24.0	13.2	12.1	6.8	7.2	3.3
25.....	20.7	20.9	33.9	31.6	23.7	26.3	22.9	13.4	11.8	6.8	6.9	<sup>b</sup> 3.2
26.....	24.7	21.3	37.3	33.1	23.0	25.6	22.0	13.6	11.3	7.0	6.7	3.2
27.....	26.9	21.8	40.6	34.8	22.4	24.9	21.2	13.6	10.9	7.2	6.6	3.7
28.....	28.0	22.1	42.2	36.5	22.1	24.0	20.6	13.6	11.0	7.3	6.5	4.9
29.....	28.6	22.3	43.9	37.9	22.3	23.4	19.7	13.6	11.6	7.6	6.4	8.8
30.....	29.2		45.6	39.1	23.1	23.3	18.6	13.2	11.9	7.9	6.1	11.9
31.....	29.6		46.8		23.7		17.6	12.2		8.3		13.0
Means.	14.0	23.5	32.5	41.6	31.8	28.7	24.8	12.8	9.6	8.8	8.2	5.7

## PASCAGOULA RIVER SYSTEM—LEAF RIVER, HATTIESBURG, MISS.

1904												
1.....											2.3	2.3
2.....											2.3	2.4
3.....											2.5	2.4
4.....											2.7	2.6
5.....											2.7	5.0
6.....											2.5	4.3
7.....											2.5	3.3
8.....											2.4	2.8
9.....											2.4	2.6
10.....											2.4	2.9
11.....											2.4	2.8
12.....											2.4	2.8
13.....											2.3	2.6
14.....											2.3	2.6
15.....										2.3	2.3	2.5
16.....										2.3	2.3	2.5
17.....										2.3	2.3	2.5
18.....										2.3	2.3	2.4
19.....										2.3	2.3	2.4
20.....										2.3	2.3	2.4
21.....										2.3	2.6	2.4
22.....										2.3	2.4	2.4
23.....										2.3	2.4	2.4
24.....										2.3	2.4	2.4
25.....										2.3	2.4	2.5
26.....										2.3	2.4	2.6
27.....										2.3	2.3	3.0
28.....										2.3	2.3	2.4
29.....										2.3	2.3	4.0
30.....										2.3	2.3	4.3
31.....										2.3		3.9
Means.										2.3	2.4	2.9

<sup>a</sup> 34.3 at 5 p. m.<sup>b</sup> 3.1 at 5 p. m.

## DESCRIPTION OF RIVER GAGES, ETC.

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## PASCAGOULA RIVER SYSTEM—CHICKASAWHAY RIVER, ENTERPRISE, MISS.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1											0.0	0.0
2											0.0	0.0
3											0.0	0.0
4											0.0	0.0
5											0.0	1.5
6											0.0	2.5
7											0.0	2.6
8											0.0	2.4
9											0.0	2.0
10											0.0	2.1
11											0.0	2.0
12											0.0	2.0
13											0.0	2.0
14											0.0	2.0
15										0.0	0.0	2.0
16										0.0	0.0	2.0
17										0.0	0.0	1.9
18										0.0	0.0	1.8
19										0.0	0.0	1.8
20										0.0	0.0	1.8
21										0.0	0.0	1.8
22										0.0	0.0	1.8
23										0.0	0.0	1.8
24										0.0	0.0	1.8
25										0.0	0.0	2.7
26										0.0	0.0	2.9
27										0.0	0.0	3.1
28										0.0	0.0	5.1
29										0.0	0.0	5.1
30										0.0	0.0	4.0
31										0.0		3.2
Means.										0.0	0.0	2.1

## PASCAGOULA RIVER SYSTEM—CHICKASAWHAY RIVER, SHUBUTA, MISS.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1											2.3	3.6
2											2.1	3.6
3											2.1	3.6
4											2.1	3.8
5											2.0	5.8
6											2.5	6.4
7											3.1	5.4
8											3.1	4.8
9											3.0	4.8
10											3.0	4.8
11											3.0	4.6
12											2.8	4.3
13											2.7	4.1
14											2.7	3.8
15											2.6	3.8
16											2.6	3.6
17											2.6	3.4
18											2.5	3.3
19											2.4	3.3
20											2.4	3.2
21											2.3	3.2
22											2.1	3.2
23											2.0	3.1
24											2.5	3.1
25											2.5	3.1
26											2.3	3.1
27											2.3	4.6
28											2.3	9.0
29											2.1	10.0
30											2.0	10.0
31												10.0
Means.											2.5	4.7

## DESCRIPTION OF RIVER GAGES, ETC.

## OHIO RIVER SYSTEM—OHIO RIVER, CAIRO, ILL.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1	11.7	30.0	22.3	47.6	40.0	24.5	23.9	16.7	11.4	12.1	8.8	6.0
2	12.0	30.1	22.3	48.2	40.5	25.8	24.8	15.9	10.7	12.6	9.2	5.9
3	12.2	29.5	22.3	48.7	41.0	27.4	25.1	15.3	10.0	12.9	9.4	5.7
4	12.3	28.5	22.5	49.0	41.4	29.1	24.9	14.7	9.5	12.7	9.4	5.7
5	12.0	27.1	22.7	49.1	41.9	30.4	24.6	14.2	9.3	12.4	9.4	5.6
6	11.7	25.2	22.9	48.9	42.0	31.2	24.3	13.8	9.0	12.1	9.4	5.5
7	11.1	23.3	23.5	48.5	41.7	32.2	24.0	13.6	9.2	11.5	9.2	5.5
8	10.6	21.6	24.5	47.9	41.0	33.3	23.6	13.2	9.2	10.7	9.1	5.4
9	10.4	20.2	26.1	47.2	40.0	34.0	23.5	12.8	9.0	10.1	9.0	5.4
10	10.2	19.6	28.1	46.5	38.7	<sup>a</sup> 34.2	24.2	12.3	8.6	9.5	8.9	5.4
11	9.8	19.9	30.2	46.0	37.4	34.1	25.5	11.8	8.2	9.1	8.8	5.8
12	9.2	20.9	32.0	45.6	36.2	33.6	27.2	11.5	8.0	8.7	8.8	6.1
13	8.6	21.8	33.4	45.2	34.9	32.8	28.6	11.2	8.0	8.3	8.7	6.5
14	8.2	22.4	34.6	44.7	33.5	31.7	29.4	10.9	8.0	8.0	8.7	6.7
15	7.8	22.8	35.5	44.0	32.1	30.5	29.7	10.8	8.0	7.8	8.7	6.7
16	7.6	23.5	36.0	42.7	30.7	29.4	29.6	11.2	7.9	7.5	8.6	6.5
17	7.6	24.3	36.2	41.2	29.4	28.6	29.3	11.0	7.6	7.3	8.4	5.9
18	7.8	24.8	36.2	39.3	28.3	28.1	28.6	10.8	7.4	7.1	8.3	5.4
19	7.9	24.9	36.0	37.4	27.2	27.7	27.6	11.0	7.4	7.0	8.1	4.8
20	8.3	24.4	35.5	35.9	26.5	27.7	26.8	11.2	8.4	7.0	8.0	4.3
21	9.0	23.6	34.6	34.5	26.2	27.4	26.3	11.3	10.2	6.9	7.8	3.7
22	10.0	22.5	33.6	33.1	25.8	27.1	25.8	11.9	11.1	6.9	7.6	3.5
23	13.0	21.6	32.8	32.0	25.2	26.9	25.1	12.8	11.7	6.9	7.4	3.4
24	16.4	21.0	32.6	31.3	24.4	26.7	24.0	13.2	12.1	6.8	7.2	3.3
25	20.7	20.9	33.9	31.6	23.7	26.3	22.9	13.4	11.8	6.8	6.9	<sup>b</sup> 3.2
26	24.7	21.3	37.3	33.1	23.0	25.6	22.0	13.6	11.3	7.0	6.7	3.2
27	26.9	21.8	40.6	34.8	22.4	24.9	21.2	13.6	10.9	7.2	6.6	3.7
28	28.0	22.1	42.2	36.5	22.1	24.0	20.6	13.6	11.0	7.3	6.5	4.9
29	28.6	22.3	43.9	37.9	22.3	23.4	19.7	13.6	11.6	7.6	6.4	8.8
30	29.2		45.6	39.1	23.1	23.3	18.6	13.2	11.9	7.9	6.1	11.9
31	29.6		46.8		23.7		17.6	12.2		8.3		13.0
Means	14.0	23.5	32.5	41.6	31.8	28.7	24.8	12.8	9.6	8.8	8.2	5.7

## PASCAGOULA RIVER SYSTEM—LEAF RIVER, HATTIESBURG, MISS.

1904												
1											2.3	2.3
2											2.3	2.4
3											2.5	2.4
4											2.7	2.6
5											2.7	5.0
6											2.5	4.3
7											2.5	3.3
8											2.4	2.8
9											2.4	2.6
10											2.4	2.9
11											2.4	2.8
12											2.4	2.8
13											2.3	2.6
14											2.3	2.6
15										2.3	2.3	2.5
16										2.3	2.3	2.5
17										2.3	2.3	2.5
18										2.3	2.3	2.4
19										2.3	2.3	2.4
20										2.3	2.3	2.4
21										2.3	2.6	2.4
22										2.3	2.4	2.4
23										2.3	2.4	2.4
24										2.3	2.4	2.4
25										2.3	2.4	2.5
26										2.3	2.4	2.6
27										2.3	2.3	3.0
28										2.3	2.3	2.4
29										2.3	2.3	4.0
30										2.3	2.3	4.3
31										2.3		3.9
Means										2.3	2.4	2.9

<sup>a</sup> 34.3 at 5 p. m.<sup>b</sup> 3.1 at 5 p. m.



## DESCRIPTION OF RIVER GAGES, ETC.

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## PASCAGOULA RIVER SYSTEM—CHICKASAWHAY RIVER, ENTERPRISE, MISS.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1											0.0	0.0
2											0.0	0.0
3											0.0	0.0
4											0.0	0.0
5											0.0	1.5
6											0.0	2.5
7											0.0	2.6
8											0.0	2.4
9											0.0	2.0
10											0.0	2.1
11											0.0	2.0
12											0.0	2.0
13											0.0	2.0
14											0.0	2.0
15										0.0	0.0	2.0
16										0.0	0.0	2.0
17										0.0	0.0	1.9
18										0.0	0.0	1.8
19										0.0	0.0	1.8
20										0.0	0.0	1.8
21										0.0	0.0	1.8
22										0.0	0.0	1.8
23										0.0	0.0	1.8
24										0.0	0.0	1.8
25										0.0	0.0	2.7
26										0.0	0.0	2.9
27										0.0	0.0	3.1
28										0.0	0.0	5.1
29										0.0	0.0	5.1
30										0.0	0.0	4.0
31										0.0		3.2
Means.										0.0	0.0	2.1

## PASCAGOULA RIVER SYSTEM—CHICKASAWHAY RIVER, SHUBUTA, MISS.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1											2.3	3.6
2											2.1	3.6
3											2.1	3.6
4											2.1	3.8
5											2.0	5.8
6											2.5	6.4
7											3.1	5.4
8											3.1	4.8
9											3.0	4.8
10											3.0	4.8
11											3.0	4.6
12											2.8	4.3
13											2.7	4.1
14											2.7	3.8
15											2.6	3.8
16											2.6	3.6
17											2.6	3.4
18											2.5	3.3
19											2.4	3.3
20											2.4	3.2
21											2.3	3.2
22											2.1	3.2
23											2.0	3.1
24											2.5	3.1
25											2.5	3.1
26											2.3	3.1
27											2.3	4.6
28											2.3	9.0
29											2.1	10.0
30											2.0	10.0
31												10.0
Means.											2.5	4.7

## DESCRIPTION OF RIVER GAGES, ETC.

## PASCAGOULA RIVER SYSTEM—PASCAGOULA RIVER, MERRILL, MISS.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												1.7
16												1.5
17												1.3
18												1.2
19												1.0
20												1.0
21												0.9
22												0.8
23												0.7
24												0.7
25												0.7
26												0.7
27												0.9
28												2.4
29												3.4
30												5.2
31												5.4
Mean												1.7

## PASSAIC RIVER SYSTEM—RAMAPO RIVER, MAHWAH, N. J.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1903												
1			6.6	4.6	3.5	2.7	5.7	2.9	4.4	3.0	4.0	3.6
2			5.6	4.4	3.4	2.7	4.8	2.8	4.0	3.0	3.9	3.6
3			4.9	4.4	3.4	2.7	4.3	2.7	3.7	3.0	3.9	3.6
4			4.7	4.4	3.4	2.7	4.0	2.7	3.5	2.9	3.9	3.7
5			4.5	4.5	3.4	2.7	3.8	4.2	3.4	2.9	3.9	3.7
6			4.3	4.2	3.4	2.6	3.7	4.1	3.3	2.9	3.9	3.7
7			4.2	4.1	3.3	2.6	3.6	4.7	3.2	2.9	3.9	3.7
8			4.5	4.3	3.3	2.7	3.4	4.0	3.1	2.9	3.8	3.7
9			5.2	5.3	3.2	2.9	3.3	3.5	3.0	9.8	3.8	3.7
10		4.3	5.1	4.8	3.2	2.8	3.2	3.4	3.0	8.6	3.7	3.9
11		4.1	4.9	4.5	3.1	2.8	3.1	3.3	3.0	7.1	3.7	3.8
12		5.1	4.8	4.4	3.1	3.1	3.1	3.2	2.9	6.6	3.7	3.8
13		4.9	4.6	4.3	3.1	4.5	3.2	3.1	2.9	6.2	3.6	3.8
14		4.6	4.3	4.1	3.0	3.7	3.2	3.0	2.9	5.7	3.6	4.7
15		4.4	4.2	6.4	3.0	4.9	3.1	2.9	2.9	5.3	3.6	4.2
16		4.3	4.1	6.9	3.0	5.4	3.0	2.9	2.9	5.1	3.6	3.9
17		4.3	4.0	6.1	2.9	4.6	3.0	2.8	5.4	4.9	4.0	3.9
18		4.0	3.9	5.4	2.9	4.2	2.9	2.8	5.0	5.1	5.2	3.9
19		3.9	3.9	5.0	2.9	4.0	3.6	3.2	4.2	4.9	4.6	Frozen.
20		3.9	3.8	4.7	2.8	4.2	3.3	3.2	4.0	4.7	4.3	4.0
21		3.9	3.8	4.5	2.8	4.6	3.2	3.1	3.8	4.6	4.1	6.5
22		3.7	4.8	4.3	2.8	6.0	3.1	3.0	3.6	4.5	4.0	5.8
23		3.7	5.1	4.2	2.8	5.2	3.4	2.9	3.5	4.4	4.0	5.0
24		3.7	6.4	4.1	2.7	5.6	3.2	2.9	3.4	4.6	4.0	4.7
25		3.7	6.0	3.9	2.7	5.5	3.0	2.8	3.2	4.5	3.9	4.7
26		3.7	5.3	3.9	2.7	5.0	3.0	2.9	3.1	4.4	3.8	4.6
27		3.7	4.8	3.8	2.7	4.4	2.9	2.9	3.1	4.3	3.8	4.3
28		4.7	4.6	3.7	2.7	4.1	2.8	2.9	3.2	4.3	3.7	4.1
29			4.4	3.7	2.7	3.9	2.7	4.3	3.2	4.2	3.7	4.0
30			4.2	3.6	2.7	6.7	3.1	4.8	3.1	4.0	3.6	4.0
31			4.0		2.7		3.0	4.7		4.0		4.1
Means		4.1	4.7	4.6	3.0	4.0	3.4	3.3	3.5	4.7	3.9	4.2

## PASSAIC RIVER SYSTEM—RAMAPO RIVER, MAHWAH, N. J.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	4.1	4.1	4.1	4.8	4.6	4.2	5.3	2.7	2.6	3.0	3.5	3.5
2.....	4.0	4.0	4.0	5.9	4.4	4.4	4.4	2.7	2.5	3.0	3.5	3.4
3.....	Frozen.	4.0	4.0	5.3	4.2	4.4	3.8	2.9	2.5	3.0	3.5	3.4
4.....		4.0	5.1	4.9	4.1	4.0	3.4	2.8	2.5	2.9	3.4	3.4
5.....		Frozen.	4.7	4.6	4.0	3.9	3.3	2.8	2.5	2.9	3.4	3.4
6.....		4.0	4.2	4.5	3.9	3.7	3.2	2.8	2.5	2.8	3.5	3.3
7.....		4.0	4.2	4.4	3.9	3.6	3.1	2.8	2.5	2.7	3.5	3.3
8.....		4.2	7.1	4.4	3.8	3.6	3.4	2.8	2.5	2.7	3.4	3.3
9.....		4.5	6.4	4.3	3.8	4.3	3.3	2.8	2.5	2.8	3.4	3.3
10.....		4.5	5.4	4.7	3.7	4.5	3.1	2.7	2.9	2.8	3.4	3.3
11.....		4.5	5.1	4.5	3.7	4.1	3.1	2.8	2.7	2.8	3.4	3.2
12.....		4.2	4.9	4.4	3.7	3.8	3.1	2.9	2.6	2.8	3.4	3.2
13.....		4.0	4.7	4.4	3.6	3.6	3.0	2.8	2.6	3.6	3.4	3.2
14.....		3.8	4.5	4.2	3.6	3.5	2.9	2.8	2.5	3.4	4.0	Frozen.
15.....		3.8	4.3	4.2	3.6	3.5	2.9	2.8	5.7	3.2	3.8	.....
16.....		Frozen.	4.2	4.1	4.1	3.4	2.9	2.8	5.8	3.1	3.8	3.2
17.....			4.1	4.0	3.9	3.3	2.8	2.7	4.3	3.1	3.8	3.2
18.....			4.1	4.0	3.8	3.3	2.8	2.7	3.7	3.0	3.7	3.2
19.....			4.1	3.9	3.7	3.2	3.0	2.7	3.5	2.9	3.7	Frozen.
20.....			4.7	3.8	3.7	3.2	2.9	2.7	3.3	2.9	3.7	.....
21.....			4.7	3.8	3.6	3.0	2.8	3.5	3.3	3.0	3.7	.....
22.....		5.2	4.5	3.8	3.5	3.0	2.7	3.6	3.2	6.9	3.9	.....
23.....	5.0	5.6	4.6	3.7	3.5	3.0	2.7	3.3	3.2	5.8	4.0	.....
24.....	5.9	5.2	4.8	3.7	3.4	2.9	2.7	3.0	3.1	4.7	3.9	3.4
25.....	4.8	5.0	4.8	3.7	3.3	2.8	2.8	2.9	3.1	4.3	3.8	3.6
26.....	4.6	4.5	4.7	3.7	3.5	2.8	2.9	2.8	3.1	4.1	3.7	3.6
27.....	4.4	4.4	5.1	3.7	3.6	2.8	2.8	2.7	3.1	4.0	3.6	Frozen.
28.....	4.4	4.1	4.7	4.6	3.5	2.8	2.8	2.7	3.1	3.8	3.6	4.1
29.....	4.4	4.3	4.5	5.3	3.4	2.8	3.0	2.7	3.0	3.7	3.6	4.6
30.....	4.4		4.4	4.9	3.4	2.9	2.9	2.9	3.0	3.7	3.6	4.4
31.....	4.2		4.4		4.1		2.8	2.8		3.6		4.1
Means.....		4.4	4.7	4.3	3.8	3.4	3.1	2.9	3.1	3.5	3.6	3.5

## PASSAIC RIVER SYSTEM—ROCKAWAY RIVER, OLD BOONTON, N. J.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1903												
1.....				1.9	1.3	0.7	2.7	1.0	1.6	0.9	1.4	1.2
2.....				1.8	1.2	0.7	2.6	1.1	1.7	0.8	1.5	1.0
3.....				1.7	1.2	0.6	2.8	0.9	1.6	0.8	1.1	1.0
4.....				1.6	1.2	0.7	2.8	0.8	1.5	0.9	1.2	1.2
5.....				1.8	1.3	0.6	2.0	1.1	1.3	0.9	1.3	1.0
6.....				1.7	1.2	0.6	1.9	1.8	1.0	0.8	1.5	1.0
7.....				1.6	1.1	0.5	1.8	3.2	0.9	0.8	1.4	1.0
8.....				1.8	1.2	0.9	1.7	3.1	0.9	0.7	1.3	0.9
9.....				2.5	1.1	1.0	1.8	2.3	0.9	2.5	1.3	0.9
10.....				2.2	1.0	0.9	1.6	1.9	0.8	7.8	1.2	1.3
11.....				2.1	1.1	0.9	1.3	1.8	0.9	5.7	1.4	1.2
12.....				2.0	1.2	1.3	1.1	1.7	0.8	4.5	1.3	1.5
13.....				1.9	1.2	4.1	1.2	1.6	0.7	3.8	1.1	1.1
14.....				1.7	1.1	3.9	1.0	1.5	0.9	3.7	1.0	1.9
15.....			1.7	3.3	0.9	3.8	1.2	1.3	0.8	2.8	0.9	2.5
16.....			1.6	3.5	0.9	3.7	1.1	1.2	0.7	2.7	0.9	2.4
17.....			1.6	2.8	0.8	3.8	1.1	1.1	1.7	2.5	1.3	Frozen.
18.....			1.5	2.7	0.7	2.9	0.9	1.1	2.0	2.4	1.8	.....
19.....			1.5	2.1	0.7	2.8	1.7	1.2	1.9	2.5	1.9	1.9
20.....			1.4	1.9	0.7	2.7	1.8	1.9	1.7	2.4	1.8	1.8
21.....			1.4	1.6	0.8	2.6	1.7	1.6	1.5	2.2	1.5	2.5
22.....			2.1	1.8	0.7	2.6	1.8	1.5	1.3	2.1	1.3	2.6
23.....			2.5	1.7	0.6	2.9	2.1	1.5	1.2	1.9	1.2	2.8
24.....			3.4	1.7	0.6	2.8	2.0	1.1	1.1	1.8	1.2	2.6
25.....			2.8	1.6	0.5	2.6	1.9	0.9	1.1	1.8	1.1	2.0
26.....			2.5	1.6	0.6	2.7	1.8	1.1	1.0	1.7	1.3	2.2
27.....			2.2	1.5	0.8	2.7	1.1	0.9	1.0	1.6	1.3	2.0
28.....			1.9	1.4	0.8	2.8	1.0	1.0	1.2	1.5	1.5	1.3
29.....			1.9	1.4	0.7	2.8	1.1	1.1	1.1	1.5	1.3	1.5
30.....			1.7	1.3	0.7	2.9	1.0	2.1	0.9	1.4	1.4	2.0
31.....			2.0		0.7		1.1	1.8		1.5		2.0
Means.....			2.0	1.9	0.9	2.2	1.6	1.5	1.2	2.2	1.3	1.7

## DESCRIPTION OF RIVER GAGES, ETC.

## PASSAIC RIVER SYSTEM—POMPTON RIVER, POMPTON PLAINS, N. J.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1				5.0	4.4	3.9	5.7	4.1	4.7	4.0	4.3	4.2
2				4.9	4.3	3.9	5.1	4.0	4.6	4.0	4.3	4.1
3				4.8	4.3	3.9	4.9	4.0	4.6	4.0	4.3	4.1
4				4.8	4.4	3.9	4.8	4.0	4.5	4.0	4.3	
5				4.8	4.3	3.9	4.6	4.8	4.5	4.0	4.3	
6				4.7	4.3	3.9	4.5	4.7	4.4	4.0	4.4	
7			4.8	4.7	4.3	3.9	4.5	5.1	4.3	4.0	4.4	
8			5.0	4.8	4.3	4.0	4.4	4.8	4.2	4.0	4.3	
9			5.2	5.3	4.2	4.0	4.3	4.7	4.2	9.0	4.3	
10			5.2	5.0	4.2	4.0	4.2	4.5	4.1	14.3	4.3	
11			5.0	4.9	4.1	4.0	4.1	4.4	4.1	9.0	4.3	
12			5.0	4.9	4.1	4.0	4.2	4.3	4.1	7.5	4.3	
13			5.0	4.8	4.1	4.8	4.2	4.3	4.1	5.6	4.3	
14			4.9	4.8	4.0	4.4	4.2	4.2	4.1	5.5	4.3	
15			4.8	5.8	4.0	5.0	4.2	4.2	4.1	5.3	4.2	
16			4.8	6.7	4.0	5.0	4.1	4.1	4.1	5.0	4.2	
17			4.8	5.9	4.0	4.8	4.0	4.0	4.9	4.8	4.4	
18			4.7	5.3	4.0	4.7	3.9	4.0	4.9	5.0	4.9	
19			4.6	5.0	4.0	4.7	5.5	4.0	4.8	4.8	4.7	
20			4.6	5.0	4.0	5.0	5.4	4.2	4.5	4.7	4.6	
21			4.6	4.9	4.0	5.2	5.4	4.1	4.4	4.7	4.5	6.2
22			5.0	4.8	4.0	5.5	5.3	4.1	4.3	4.7	4.4	4.4
23			5.2	4.7	4.0	5.3	5.6	4.0	4.3	4.6	4.4	5.0
24			6.2	4.6	4.0	5.4	5.4	4.0	4.2	4.7	4.4	4.9
25			5.7	4.6	3.9	5.3	5.2	4.0	4.2	4.7	4.4	
26			5.3	4.6	3.9	5.2	4.8	4.1	4.1	4.6		
27			5.0	4.5	3.9	4.9	4.0	4.1	4.0	4.5		
28			5.0	4.5	3.9	4.7	4.0	4.1	4.2	4.5		
29			4.9	4.4	3.9	4.7	4.0	4.7	4.1	4.5		
30			4.8	4.4	3.9	6.0	4.1	4.8	4.0	4.4		
31			5.1		3.9		4.1	4.8		4.3		
<b>Means</b>			5.0	4.9	4.1	4.6	4.6	4.3	4.3	5.6	4.4	
<b>1904</b>												
1						4.6	4.8	3.7	3.8	4.1	4.4	4.4
2						4.6	4.5	3.7	3.8	4.1	4.3	4.4
3						4.6	4.2	3.7	3.8	4.1	4.2	4.4
4						4.5	4.1	3.7	3.8	4.1	4.1	4.4
5						4.5	4.0	3.7	3.8	4.1	4.0	4.4
6						4.5	4.0	3.7	3.8	4.1	4.1	4.4
7						4.4	4.0	3.7	3.8	4.1	4.1	4.4
8			7.5			4.4	4.0	3.7	3.8	4.1	4.1	4.4
9			6.4			4.8	4.2	3.7	3.8	4.1	4.1	4.4
10			5.8			4.8	4.0	3.7	3.9	4.1	4.1	4.4
11			5.2			4.5	4.0	3.9	3.9	4.1	4.1	4.4
12			4.8			4.4	4.0	3.8	3.9	4.1	4.1	4.4
13						4.3	4.0	3.7	3.9	4.3	4.1	4.4
14						4.3	4.0	3.7	3.9	4.1	4.7	4.4
15						4.3	4.0	3.7	5.5	4.1	4.6	4.4
16						4.2	4.0	3.7	5.0	4.1	4.5	4.4
17						4.1	4.0	3.7	4.7	4.1	4.4	4.4
18					4.4	4.1	3.9	3.6	4.3	4.1	4.4	4.4
19					4.3	4.1	3.8	3.6	4.3	4.1	4.4	4.4
20					4.4	4.1	3.8	3.6	4.3	4.1	4.3	4.4
21					4.3	4.0	3.8	4.3	4.3	4.1	4.3	4.4
22					4.2	4.0	3.7	4.3	4.3	5.7	4.4	4.4
23					4.2	4.0	3.7	4.2	4.3	5.0	4.4	4.4
24					4.2	4.0	3.7	4.0	4.2	4.8	4.4	4.4
25					4.2	4.0	3.7	4.0	4.1	4.7	4.4	Frozen.
26					4.3	3.9	3.7	3.9	4.1	4.6	4.4	
27					4.3	4.0	3.7	3.8	4.1	4.6	4.4	
28					4.3	4.0	3.7	3.8	4.1	4.6	4.4	4.7
29					4.2	4.0	3.7	3.8	4.1	4.6	4.4	4.6
30					4.2	4.0	3.8	3.8	4.1	4.5	4.4	4.5
31			4.9		4.4		3.7	3.8		4.4		4.5
<b>Means</b>						4.3	3.9	3.8	3.8	4.3	4.3	4.3

## PASSAIC RIVER SYSTEM—PASSAIC RIVER, CHATHAM, N. J.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1903												
1			6.3	3.4	2.5	2.1	4.2	2.6	3.4	2.6	2.7	2.5
2			6.1	3.2	2.4	2.1	3.9	2.5	3.4	2.6	2.7	2.5
3			5.8	3.0	2.3	2.0	3.5	2.5	3.3	2.5	2.7	2.5
4			5.6	3.6	2.3	2.0	3.2	2.4	3.2	2.5	2.7	Frozen.
5			5.0	3.5	2.3	2.0	3.0	4.5	3.0	2.4	2.8	
6			4.6	3.3	2.3	2.0	2.9	4.8	3.2	2.4	2.7	2.4
7			4.4	3.2	2.2	2.0	2.7	4.8	3.1	2.4	2.6	2.4
8			4.8	3.5	2.2	2.2	2.6	4.7	3.1	2.3	2.6	2.4
9			5.0	4.5	2.2	2.5	2.5	4.7	3.0	5.0	2.6	2.3
10		4.0	5.1	4.8	2.2	2.4	2.5	4.5	3.0	7.0	2.5	3.3
11		3.5	4.9	4.3	2.1	2.4	2.5	4.2	2.9	7.2	2.5	3.2
12		3.9	4.8	3.7	2.1	3.5	2.6	4.0	2.8	7.0	2.5	3.0
13		4.0	4.3	3.6	2.1	a 5.2	2.6	3.6	2.6	6.7	2.5	3.9
14		3.9	3.9	3.7	2.1	5.1	2.5	3.4	2.5	6.2	2.4	4.6
15		3.7	3.5	4.7	2.0	5.0	2.5	3.2	2.5	5.6	2.4	5.1
16		3.6	3.3	5.1	2.0	4.7	2.4	3.0	2.4	4.7	2.4	4.9
17		5.0	3.1	5.0	2.0	4.5	2.4	2.9	3.4	4.3	2.6	4.7
18		5.5	3.0	4.6	2.0	4.2	2.3	2.7	5.3	4.0	3.1	4.2
19		5.2	3.0	4.0	2.0	3.8	2.6	2.5	5.2	3.7	3.0	3.4
20		Frozen.	3.0	3.5	2.0	3.5	3.0	2.6	5.0	3.5	2.9	3.2
21		4.4	2.9	3.3	2.0	3.8	3.0	2.5	4.7	3.4	2.8	4.8
22		4.6	3.4	3.2	2.0	3.7	2.9	2.5	4.5	3.4	2.7	5.2
23		4.0	4.0	3.1	2.0	3.5	3.7	2.4	4.2	3.3	2.7	5.1
24		3.2	4.5	3.0	2.0	3.7	3.6	2.4	3.9	3.3	2.7	4.5
25		3.3	4.8	2.9	2.0	3.7	3.5	2.4	3.7	3.2	2.6	3.4
26		3.7	4.5	2.9	2.0	3.6	3.4	2.5	3.4	3.1	2.6	3.3
27		3.4	4.0	2.8	2.0	3.4	3.2	2.5	3.1	3.0	2.6	3.2
28		5.0	3.5	2.7	2.0	3.2	3.0	2.8	2.9	2.9	2.6	3.1
29			3.3	2.6	2.1	3.1	2.9	3.2	2.8	2.9	2.5	3.0
30			3.1	2.6	2.1	3.8	2.8	3.6	2.7	2.8	2.5	3.2
31			3.5		2.1		2.6	3.6		2.8		3.2
Means.		4.1	4.2	3.6	2.1	3.3	2.9	3.2	3.4	3.8	2.6	3.5
1904												
1	3.0	3.8	5.6	3.9	3.4	3.0	2.1	2.4	2.4	2.5	2.7	2.4
2	2.7	3.6	5.2	4.7	3.5	3.0	2.1	2.5	2.4	2.5	2.7	2.4
3	2.7	3.4	4.7	4.5	3.4	2.9	2.1	3.2	2.4	2.4	2.6	2.4
4	2.7	Frozen.	6.0	4.1	3.2	2.8	2.1	3.4	2.3	2.4	2.6	2.4
5	Frozen.		5.9	3.7	3.1	2.7	2.1	3.1	2.3	2.4	2.5	2.3
6		3.4	5.2	3.4	2.9	2.7	2.1	4.4	2.3	2.4	2.5	2.3
7		3.7	4.6	3.3	2.8	2.8	2.2	4.2	2.3	2.3	2.5	2.3
8		5.5	6.8	3.3	2.8	2.7	2.7	3.7	2.2	2.3	2.5	2.3
9		5.1	6.0	3.3	2.7	2.8	3.1	3.3	2.2	2.3	2.6	Frozen.
10		Frozen.	5.6	3.5	2.7	2.7	3.0	3.0	2.2	2.3	2.6	
11			5.0	3.3	2.7	2.6	2.8	4.6	2.2	2.3	2.7	
12			4.0	3.3	2.6	2.6	2.6	4.2	2.2	2.7	2.9	
13			3.5	3.2	2.6	2.5	2.4	3.9	2.1	3.5	3.2	
14	3.5		3.4	3.0	2.5	2.4	2.5	3.5	2.1	3.3	3.8	
15	3.4		3.3	2.9	2.6	2.4	2.4	3.2	6.0	2.9	3.7	
16	3.2		3.2	2.9	2.8	2.3	2.3	3.0	5.5	2.8	3.5	
17	3.0		3.0	2.8	2.7	2.3	2.3	2.8	5.2	2.8	3.1	
18	Frozen.		3.0	2.8	2.6	2.3	2.4	2.5	5.0	2.7	3.0	
19			3.5	2.7	2.6	2.3	2.5	2.3	4.3	2.7	2.9	
20			3.7	2.7	2.7	2.2	2.4	2.7	4.2	2.6	2.9	
21			3.4	2.7	2.8	2.2	2.3	4.0	3.6	2.6	2.8	
22		6.7	3.7	2.6	2.7	2.2	2.3	3.9	3.4	4.6	2.8	
23	5.8	7.5	3.9	2.6	2.6	2.2	2.3	3.7	3.0	4.5	2.7	2.5
24	7.6	7.9	3.9	2.6	2.4	2.2	2.3	3.5	2.9	4.3	2.7	2.7
25	7.2	7.6	3.7	2.6	2.4	2.1	2.3	3.2	2.8	3.9	2.7	Frozen.
26	6.7	7.5	3.6	2.6	2.4	2.1	2.3	3.0	2.7	3.6	2.7	
27	6.1	6.5	3.6	2.8	2.3	2.1	2.3	2.7	2.7	3.2	2.6	
28	5.0	5.6	3.5	4.0	2.3	2.1	2.2	2.6	2.6	3.0	2.5	3.5
29	4.5	5.7	3.4	3.9	2.3	2.1	2.6	2.5	2.5	2.9	2.5	4.0
30	4.0		3.3	3.5	2.3	2.1	2.7	2.5	2.5	2.8	2.5	3.6
31	3.9		3.2		2.6		2.6	2.4		2.7		3.3
Means.	4.4	5.6	4.2	3.2	2.7	2.4	2.4	3.2	3.0	2.9	2.8	

\*6.0 at 12 noon.

PEARL RIVER SYSTEM—PEARL RIVER, JACKSON, MISS.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1											0.3	0.9
2											0.3	1.0
3											0.5	0.8
4											0.5	0.9
5											0.4	1.0
6											0.4	1.0
7											0.5	1.1
8											0.4	1.4
9											0.5	1.4
10											0.4	1.4
11											0.5	1.5
12											0.5	1.5
13											0.5	1.5
14											0.5	1.5
15										0.6	0.5	1.4
16										0.5	0.5	1.4
17										0.5	0.5	1.4
18										0.5	0.5	1.2
19										0.5	0.5	1.2
20										0.4	0.5	1.1
21										0.4	0.5	1.1
22										0.4	0.7	1.1
23										0.4	0.8	1.0
24										0.4	0.7	1.0
25										0.4	0.6	1.0
26										0.3	0.5	1.1
27										0.3	0.5	1.7
28										0.3	0.5	1.9
29										0.3	0.6	1.5
30										0.3	0.8	1.8
31										0.3		2.4
Means										0.4	5.1	1.3

### PEARL RIVER SYSTEM—PEARL RIVER, COLUMBIA, MISS.

[illegible]

## DESCRIPTION OF RIVER GAGES, ETC.

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## PEDEE RIVER SYSTEM—LUMBER RIVER, FAIRBLUFF, N. C.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	3.4	3.9	5.7	5.2	6.3	2.1	2.9	-0.2				
2.....	3.4	3.8	5.7	5.1	6.0	1.8	2.8	-0.1				
3.....	3.4	3.7	5.7	5.0	5.8	1.6	2.5	0.0				
4.....	3.4	3.6	5.8	4.9	5.6	1.2	2.2	0.0				
5.....	3.4	3.6	5.8	4.8	5.3	1.3	2.1	0.0				
6.....	3.4	3.5	5.8	4.7	5.0	1.8	2.0	0.0				
7.....	3.4	3.5	5.8	4.5	4.7	0.9	2.0	0.1				
8.....	3.4	3.5	5.7	4.4	4.4	0.4	2.0	0.2				
9.....	3.3	3.4	5.7	4.3	4.1	0.3	1.6	0.1				
10.....	3.3	3.7	5.5	4.2	3.7	0.3	1.2	0.0				
11.....	3.3	3.9	5.4	4.0	3.4	1.4	1.0	-0.4				
12.....	3.4	4.1	5.4	3.9	3.2	2.0	0.8	-0.6				
13.....	3.5	4.4	5.3	3.8	3.0	2.1	0.7	-0.8				
14.....	3.5	5.0	5.2	3.7	2.7	2.0	0.7	-0.9				
15.....	3.5	5.4	5.1	3.6	2.4	1.9	0.7	-1.1				
16.....	3.6	5.7	5.0	3.4	2.1	1.8	0.3	-1.2				
17.....	3.8	5.9	5.0	3.4	1.8	1.6	0.1	-1.2				
18.....	4.0	6.0	4.9	3.6	1.8	1.6	0.0	-1.2				
19.....	4.2	6.0	4.8	3.8	1.8	1.7	-0.1	-1.2				
20.....	4.4	6.0	4.8	4.0	1.8	1.7	-0.2	-1.2				
21.....	4.5	5.9	4.8	4.4	1.8	1.6	-0.3	-1.2				
22.....	4.5	5.9	4.7	4.4	1.8	1.5	-0.3	-1.2				
23.....	4.5	5.8	4.6	5.1	1.8	1.7	-0.4	-1.1				
24.....	4.6	5.7	4.6	6.2	2.0	2.0	-0.4	-1.1				
25.....	4.6	5.7	4.7	6.3	2.1	2.3	-0.5	-1.2				
26.....	4.5	5.7	4.8	6.4	2.1	2.5	-0.6	-1.2				
27.....	4.4	5.7	4.9	6.5	2.1	2.5	-0.6	-1.3				
28.....	4.3	5.7	5.0	6.5	2.1	2.6	-0.7	-1.4				
29.....	4.2		5.1	6.5	2.0	2.7	-0.7	-1.3				
30.....	4.1		5.2	6.4	2.0	2.9	-0.4	-1.3				
31.....	4.0		5.2		2.1		-0.3	-1.3				
Means	3.8	4.8	5.2	4.8	3.1	1.7	0.6	-0.8				

## PEDEE RIVER SYSTEM—PEDEE RIVER, CHERAW, S. C.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	1.5	1.9	7.0	4.5	5.0	2.1	5.5	1.6	1.1	0.6	1.2	2.8
2.....	1.3	1.7	27.5	4.1	4.6	2.0	4.3	1.4	1.3	0.6	1.1	2.2
3.....	1.1	1.5	29.5	3.8	4.2	1.9	3.1	1.4	1.1	1.4	1.1	1.8
4.....	1.0	1.3	25.2	3.7	3.8	1.8	3.6	1.4	1.0	1.0	2.4	2.7
5.....	1.0	1.6	19.0	4.9	3.6	2.0	3.2	1.3	0.9	0.9	6.8	13.0
6.....	1.2	3.2	13.2	4.7	3.6	2.2	2.7	1.2	0.8	0.8	8.0	17.5
7.....	1.3	4.7	8.8	3.8	3.4	2.1	2.2	1.1	0.7	0.8	4.5	12.7
8.....	1.3	3.6	6.8	3.4	3.1	1.9	2.0	1.0	0.7	0.9	2.8	6.7
9.....	1.3	3.0	11.2	3.1	2.9	2.5	1.9	0.9	0.6	1.0	1.9	4.2
10.....	1.4	2.6	17.9	2.9	3.1	2.5	1.8	0.9	0.6	1.0	1.5	3.1
11.....	1.8	6.5	14.2	2.7	2.9	2.4	1.8	0.8	0.5	1.7	1.3	2.7
12.....	3.9	15.2	11.4	2.9	2.6	2.3	1.7	0.7	0.5	1.5	1.1	2.4
13.....	12.6	17.4	8.5	9.3	2.4	2.1	1.8	0.7	0.4	1.2	1.0	2.2
14.....	15.2	27.7	6.3	7.3	2.2	2.0	1.7	0.6	0.4	1.1	1.0	2.1
15.....	10.1	28.8	5.4	5.0	1.9	1.9	1.8	0.6	0.4	1.1	0.9	2.1
16.....	6.0	23.5	6.0	3.6	1.8	2.1	1.7	0.6	2.2	1.5	1.1	2.0
17.....	4.3	16.9	17.8	3.1	1.8	2.9	1.6	0.6	2.4	1.7	1.1	1.9
18.....	3.1	10.8	18.5	3.0	1.8	9.5	1.5	0.9	8.2	1.3	1.0	1.8
19.....	2.7	7.1	13.7	22.2	4.5	13.6	1.4	0.8	3.6	1.0	1.0	1.7
20.....	3.1	4.7	9.7	31.4	8.6	11.6	1.3	0.9	1.9	0.9	1.0	1.7
21.....	10.2	3.4	8.0	32.1	4.8	7.0	1.2	0.9	1.4	0.8	1.1	3.3
22.....	12.6	5.2	9.0	31.2	3.0	3.0	1.1	0.8	1.3	0.7	1.2	16.1
23.....	8.3	20.0	7.8	27.9	2.3	3.2	1.1	1.0	1.2	0.8	1.4	13.5
24.....	5.1	19.0	6.1	24.3	2.1	5.5	1.8	1.4	1.1	0.8	1.3	8.8
25.....	3.9	14.1	6.0	19.5	2.0	15.9	2.0	2.5	1.1	0.9	1.3	6.0
26.....	3.1	15.5	7.9	15.6	3.2	13.0	2.7	2.1	1.0	14.4	1.4	5.0
27.....	2.6	10.9	11.0	11.5	4.7	10.3	3.9	1.5	0.9	7.2	1.9	3.9
28.....	2.3	7.2	10.1	9.0	3.5	8.4	6.6	1.3	0.8	3.0	16.4	2.9
29.....	2.2		8.1	7.0	2.7	5.5	5.2	1.0	0.7	2.0	9.0	2.5
30.....	2.1		6.3	5.8	2.4	6.0	3.0	1.0	0.7	1.5	4.0	2.5
31.....	2.0		5.3		2.2		2.0	1.2		1.3		4.5
Means	4.2	10.0	11.7	10.4	3.2	5.0	2.5	1.1	1.8	1.8	2.7	5.0

## PEDEE RIVER SYSTEM—PEDEE RIVER, CHERAW, S. C.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	10.7	4.3	1.8	10.5	5.0	12.4	9.7	3.3	15.5	10.5	2.9	2.6
2.....	9.5	3.4	1.8	8.1	4.5	9.4	12.9	3.8	14.0	12.1	2.8	2.6
3.....	7.4	2.8	1.7	23.2	4.1	7.4	11.4	3.6	12.0	9.0	2.9	2.5
4.....	6.5	3.0	1.7	33.5	4.0	6.0	7.2	3.2	9.2	7.4	3.0	2.8
5.....	4.5	11.2	1.7	32.7	3.8	5.4	5.9	2.9	7.0	6.1	3.0	2.9
6.....	3.6	9.0	1.6	27.5	3.7	5.4	4.5	6.2	6.0	5.0	3.0	3.9
7.....	2.9	5.9	1.6	20.9	3.6	5.2	4.0	33.0	5.6	4.2	3.1	3.3
8.....	2.6	4.2	1.5	14.9	3.5	5.3	4.2	36.2	5.2	3.9	3.0	3.0
9.....	2.4	3.9	1.5	9.8	4.1	6.5	8.0	34.0	4.8	3.8	3.0	2.8
10.....	2.2	7.1	1.4	6.6	5.4	5.4	13.4	27.4	4.5	3.7	2.9	2.8
11.....	2.1	7.5	1.7	4.9	5.6	4.0	11.9	20.4	4.3	3.6	2.9	2.9
12.....	2.7	6.0	2.0	4.1	6.9	3.9	6.0	14.3	4.1	3.5	2.8	3.0
13.....	17.2	5.5	5.1	3.8	5.8	3.8	4.4	11.0	3.9	3.7	2.9	3.5
14.....	22.6	4.5	4.0	5.6	4.1	4.4	4.0	18.4	3.7	7.0	2.9	3.1
15.....	15.5	3.7	2.8	13.7	3.3	9.3	8.0	31.0	3.6	6.8	2.8	3.8
16.....	8.7	3.1	2.2	12.6	2.9	19.0	22.4	32.1	3.5	5.9	2.8	13.2
17.....	5.5	2.8	2.0	8.5	2.9	29.4	25.9	30.6	6.0	4.3	2.7	22.1
18.....	7.1	2.7	1.9	6.0	3.0	32.5	21.6	27.8	18.0	3.8	2.7	14.6
19.....	7.9	2.5	1.8	4.8	6.8	28.9	18.8	25.4	29.0	3.5	2.6	8.4
20.....	5.0	2.4	1.7	6.7	7.0	23.0	22.2	23.7	28.8	3.4	2.6	5.0
21.....	3.9	2.2	1.8	29.6	27.8	17.7	18.9	21.1	21.4	3.3	2.7	4.0
22.....	3.2	2.1	1.9	33.1	27.5	17.8	13.4	19.6	15.0	3.2	2.6	3.4
23.....	3.0	2.0	1.9	33.2	33.5	15.2	8.5	14.5	10.8	3.1	2.6	3.0
24.....	2.8	2.0	2.0	27.2	32.5	16.2	6.0	12.5	6.7	3.0	2.9	3.0
25.....	2.9	1.9	2.1	21.8	32.3	17.1	4.4	18.6	5.3	2.9	3.0	4.5
26.....	3.0	1.9	6.4	16.3	25.6	14.5	4.0	18.0	4.6	2.9	4.9	4.9
27.....	2.8	1.9	27.9	11.5	21.0	16.6	3.6	17.9	4.1	2.8	3.5	5.0
28.....	2.8	1.8	31.4	8.6	24.7	15.8	4.6	20.5	3.7	2.8	3.0	10.8
29.....	2.4	.....	29.1	6.6	25.4	11.4	4.6	23.8	6.5	2.7	2.8	18.1
30.....	2.3	.....	21.9	5.5	22.3	8.6	3.8	19.1	8.4	2.7	2.7	28.4
31.....	3.0	.....	15.1	.....	17.0	.....	3.3	16.3	.....	3.1	.....	33.3
<b>Means.</b>	<b>5.8</b>	<b>4.0</b>	<b>5.9</b>	<b>15.1</b>	<b>11.6</b>	<b>12.6</b>	<b>9.7</b>	<b>19.0</b>	<b>9.2</b>	<b>4.6</b>	<b>2.9</b>	<b>7.3</b>
<b>1902</b>												
1.....	35.5	22.5	30.3	18.0	3.8	3.1	4.0	1.8	1.5	2.5	2.6	16.1
2.....	33.0	28.1	30.8	11.5	4.0	3.0	3.0	1.9	1.4	2.2	2.0	25.0
3.....	24.8	33.2	30.9	8.0	3.9	2.8	2.4	1.8	1.3	4.1	1.8	20.7
4.....	18.8	31.7	26.5	6.4	3.5	2.5	2.2	3.0	1.3	2.8	1.7	25.1
5.....	13.2	25.1	21.0	6.0	3.3	2.1	1.9	2.3	1.8	2.0	1.8	22.7
6.....	9.3	19.2	17.9	6.9	3.1	1.9	1.8	1.9	2.2	5.4	1.8	18.0
7.....	6.9	13.5	15.0	6.5	3.0	1.7	1.8	1.7	2.1	17.9	1.9	15.7
8.....	5.7	9.7	11.6	7.3	3.0	1.9	1.9	1.6	2.0	13.3	3.0	11.4
9.....	5.4	7.6	9.6	16.9	3.0	1.8	2.0	1.6	1.8	5.0	4.0	7.4
10.....	5.1	6.5	9.9	13.5	3.4	1.8	4.1	1.8	3.5	3.0	3.0	5.2
11.....	4.9	6.0	9.1	9.2	3.4	2.1	4.1	1.9	12.1	2.5	2.1	4.2
12.....	4.7	5.4	7.7	7.0	4.4	2.0	3.2	2.2	8.2	8.0	1.8	3.8
13.....	4.5	4.9	7.2	5.8	4.0	1.8	3.5	2.0	4.0	7.9	1.7	5.9
14.....	4.3	4.6	6.5	5.4	4.2	1.9	2.7	1.9	2.5	6.0	1.7	13.4
15.....	4.1	4.7	6.1	4.9	3.8	2.3	2.3	4.9	1.9	5.9	1.6	10.5
16.....	3.8	4.8	6.2	4.9	4.4	2.4	2.0	11.9	1.8	5.2	1.6	7.0
17.....	3.7	4.8	10.2	4.8	4.3	9.0	1.8	12.8	1.7	3.2	1.5	5.4
18.....	3.7	5.2	18.4	6.1	4.3	24.1	1.8	9.2	1.6	2.5	1.7	7.0
19.....	3.9	5.5	15.7	8.1	4.0	27.2	2.0	3.8	1.5	2.1	3.3	10.6
20.....	3.8	5.4	10.9	7.0	4.3	17.8	1.9	2.6	1.5	2.0	13.0	7.5
21.....	3.8	6.1	7.5	5.7	4.0	8.0	1.8	2.0	1.4	1.9	8.3	5.5
22.....	8.3	10.5	6.0	5.0	4.2	4.0	1.6	1.8	1.4	1.8	4.4	4.6
23.....	12.9	19.1	6.0	4.7	3.7	2.9	1.6	1.9	1.3	1.8	2.8	14.6
24.....	10.2	22.4	6.2	4.4	3.4	2.6	2.1	2.2	1.3	1.7	2.4	12.8
25.....	7.0	20.5	5.4	4.1	3.1	2.4	2.0	2.1	1.2	1.7	2.2	8.7
26.....	5.6	31.5	5.1	3.9	3.3	2.2	1.8	1.9	8.0	1.6	3.6	6.0
27.....	5.1	31.2	5.0	3.7	3.1	2.3	1.7	1.8	6.2	1.7	8.5	4.9
28.....	4.9	26.5	4.9	3.7	4.2	2.4	1.9	1.8	6.4	1.9	7.8	4.4
29.....	6.3	.....	5.2	3.7	3.9	4.8	1.7	1.7	5.4	2.9	5.2	3.9
30.....	10.0	.....	18.2	3.8	3.4	7.2	1.8	1.6	2.9	5.0	3.2	3.4
31.....	10.9	.....	23.1	.....	3.2	.....	1.7	1.5	.....	4.0	.....	3.7
<b>Means.</b>	<b>9.2</b>	<b>14.9</b>	<b>12.7</b>	<b>6.9</b>	<b>3.7</b>	<b>5.1</b>	<b>2.3</b>	<b>3.0</b>	<b>3.0</b>	<b>4.2</b>	<b>3.4</b>	<b>10.2</b>



## PEDEE RIVER SYSTEM—PEDEE RIVER, CHERAW, S. C.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	4.0	5.5	23.9	27.8	6.8	4.2	4.5	1.8	5.9	1.6	1.9	1.7
2.....	3.8	4.6	25.9	24.3	6.0	4.6	3.9	3.5	5.7	1.6	1.8	1.7
3.....	8.5	4.1	21.2	18.7	5.4	4.0	3.2	7.8	4.5	1.5	1.8	1.7
4.....	25.5	4.0	15.1	14.0	5.2	3.6	2.8	4.8	2.8	1.5	2.0	1.6
5.....	29.1	10.5	10.9	12.4	5.5	3.4	2.6	4.0	2.6	1.5	1.9	1.6
6.....	25.7	23.6	8.5	12.9	5.4	4.3	8.3	4.3	2.4	1.4	5.0	1.6
7.....	19.5	20.0	7.3	10.3	5.2	11.4	8.6	6.5	2.1	1.4	4.5	1.6
8.....	13.3	21.5	7.4	8.6	5.0	17.0	6.7	4.6	1.9	1.4	3.7	1.8
9.....	9.0	31.3	10.5	14.4	4.8	21.2	5.2	3.8	2.9	1.6	3.0	1.8
10.....	6.5	29.2	14.9	25.2	4.6	15.9	3.6	3.6	5.4	1.8	2.7	1.9
11.....	5.2	23.8	14.0	24.0	4.4	12.0	3.0	3.5	6.5	4.7	2.5	1.9
12.....	5.5	26.6	17.8	16.8	4.2	12.0	2.6	3.2	3.7	3.0	2.4	1.8
13.....	10.0	28.0	20.4	12.6	4.1	8.7	2.5	2.8	2.5	2.4	2.2	1.8
14.....	8.2	23.8	16.4	22.2	4.0	6.2	4.5	3.0	2.0	2.2	2.0	1.9
15.....	5.8	18.6	12.5	27.7	4.0	4.7	7.2	4.2	1.9	2.0	1.9	1.9
16.....	4.7	14.0	9.6	26.5	4.0	3.6	6.0	7.0	1.8	2.0	1.8	1.8
17.....	4.4	15.0	8.0	22.0	3.9	3.3	4.1	6.7	2.0	1.9	1.7	1.9
18.....	4.2	28.8	7.0	16.3	3.8	3.1	3.2	8.7	13.0	6.0	1.9	1.9
19.....	4.5	30.4	6.3	11.6	3.7	3.6	2.6	7.9	16.7	4.6	1.9	1.8
20.....	4.0	25.0	5.9	9.2	3.5	3.8	2.4	12.1	9.3	3.0	4.0	1.8
21.....	4.0	18.8	5.8	10.0	3.3	3.5	2.1	9.2	4.5	2.8	3.1	2.1
22.....	6.3	13.3	16.3	10.8	3.3	3.9	2.5	5.1	3.2	2.6	2.2	2.6
23.....	8.4	10.2	31.4	9.5	3.2	3.9	2.3	3.0	2.4	2.5	2.0	3.5
24.....	7.9	8.2	33.8	8.7	3.1	6.3	2.1	2.4	2.1	2.3	1.9	3.1
25.....	5.9	7.0	33.7	7.8	3.1	5.6	2.0	2.2	2.0	2.8	2.0	2.4
26.....	4.9	6.2	33.7	8.8	3.0	5.6	1.9	2.0	1.9	2.5	2.0	2.4
27.....	4.2	5.7	27.0	14.5	2.8	5.7	1.9	1.9	1.8	2.3	1.9	3.3
28.....	4.3	7.0	20.5	15.2	2.9	5.8	1.8	1.9	1.8	2.2	1.9	3.4
29.....	5.2	.....	14.9	11.2	3.2	6.8	2.0	1.8	1.7	2.1	1.8	3.0
30.....	8.9	.....	13.8	8.0	6.4	5.0	1.9	1.8	1.7	2.0	1.8	2.5
31.....	7.1	.....	26.2	.....	4.6	.....	1.8	1.7	.....	1.9	.....	2.2
<b>Means.</b>	<b>8.7</b>	<b>16.6</b>	<b>16.8</b>	<b>15.4</b>	<b>4.3</b>	<b>6.8</b>	<b>3.5</b>	<b>4.4</b>	<b>4.0</b>	<b>2.4</b>	<b>2.4</b>	<b>2.1</b>
<b>1904</b>												
1.....	2.1	2.8	7.3	3.1	2.5	1.5	18.1	5.6	4.1	1.6	1.8	2.0
2.....	2.0	3.1	6.0	3.0	2.4	2.2	13.3	3.4	2.9	1.6	1.7	1.9
3.....	2.0	3.2	4.9	3.0	2.3	6.4	8.3	8.6	8.4	1.5	1.6	2.2
4.....	1.9	3.0	4.5	2.9	2.2	7.7	4.0	10.0	5.8	1.5	1.8	4.7
5.....	1.9	3.0	4.9	2.8	2.2	4.5	2.3	6.4	4.5	1.5	7.3	5.6
6.....	2.0	2.9	4.7	2.8	2.1	3.4	2.1	6.1	12.2	1.4	5.1	5.5
7.....	2.1	2.8	4.0	2.7	2.3	2.6	2.0	6.5	10.5	1.4	2.9	11.8
8.....	2.0	3.4	12.5	2.6	2.7	2.7	2.0	6.5	6.8	1.5	4.0	8.1
9.....	1.9	9.3	15.2	2.5	2.7	3.5	2.0	19.9	3.3	1.5	3.2	4.3
10.....	1.8	9.5	12.8	2.4	2.9	3.1	2.4	19.0	3.0	1.4	2.3	3.3
11.....	1.8	6.6	8.2	2.4	3.0	2.8	2.2	19.5	2.8	1.4	2.0	3.0
12.....	2.5	4.5	5.7	2.4	2.9	3.4	3.0	19.5	2.6	1.3	1.9	2.8
13.....	2.6	3.7	4.5	2.3	2.9	5.3	4.9	18.0	2.4	1.3	2.1	2.7
14.....	2.4	3.1	4.0	2.3	2.7	5.0	3.0	11.8	2.6	1.5	10.6	2.5
15.....	2.6	3.0	4.0	2.2	2.5	3.4	2.6	6.2	8.1	1.5	13.5	2.8
16.....	2.5	2.9	4.9	2.1	3.3	2.6	2.4	3.5	7.9	1.4	8.6	2.9
17.....	2.4	2.9	4.2	2.0	3.1	2.2	2.2	9.4	4.2	1.4	4.8	2.9
18.....	2.3	2.8	3.9	2.0	2.9	2.0	2.2	9.1	3.0	1.4	3.9	3.2
19.....	2.2	2.8	3.5	1.9	2.6	1.9	2.1	5.6	2.6	1.3	3.4	3.4
20.....	2.2	2.8	3.1	1.9	2.4	2.9	2.0	3.4	2.3	1.3	3.0	3.4
21.....	2.2	15.8	2.9	2.0	8.1	2.8	2.0	3.0	2.1	2.3	2.6	3.2
22.....	2.1	17.1	2.8	2.0	4.8	2.5	3.2	2.8	2.0	2.5	2.3	2.9
23.....	4.6	25.7	2.8	2.0	3.0	2.5	6.1	2.8	1.9	2.2	2.0	2.7
24.....	10.4	23.0	3.3	1.9	2.4	2.2	5.3	2.7	1.8	2.0	2.0	2.4
25.....	5.8	16.6	4.0	1.8	2.2	2.1	6.0	2.6	2.0	2.0	2.3	2.2
26.....	4.2	10.8	8.4	1.8	2.0	2.0	5.2	2.6	2.0	1.8	2.1	2.0
27.....	3.3	7.3	6.6	2.0	1.8	1.9	4.6	3.6	1.9	2.6	2.2	2.2
28.....	2.9	8.9	6.8	2.9	1.7	1.8	3.5	19.4	1.8	2.4	2.2	2.8
29.....	2.8	8.6	6.4	3.0	1.6	1.9	6.0	21.4	1.7	2.1	2.1	2.9
30.....	2.9	.....	4.8	2.8	1.6	13.3	7.0	14.8	1.7	2.0	2.0	6.8
31.....	2.9	.....	3.8	.....	1.5	.....	8.5	9.0	.....	1.9	.....	5.0
<b>Means.</b>	<b>2.8</b>	<b>7.3</b>	<b>5.7</b>	<b>2.4</b>	<b>2.7</b>	<b>3.4</b>	<b>4.5</b>	<b>9.1</b>	<b>4.0</b>	<b>1.7</b>	<b>3.6</b>	<b>3.7</b>

## DESCRIPTION OF RIVER GAGES, ETC.

## PEDEE RIVER SYSTEM—PEDEE RIVER, SMITHS MILLS, S. C.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	6.0	7.0	14.3	12.6	17.0	5.6	11.4	7.4	1.2	0.8	4.9	8.1
2.....	5.4	6.6	14.4	12.5	16.3	4.3	11.5	6.6	1.1	0.8	3.3	8.9
3.....	5.0	5.3	14.5	12.5	15.6	3.7	11.5	4.7	1.3	0.4	2.5	8.4
4.....	4.4	4.5	14.3	12.3	14.9	3.0	11.4	3.6	1.5	0.4	2.4	7.6
5.....	4.0	4.3	14.3	12.0	14.0	3.0	11.1	3.0	1.7	1.2	2.4	7.0
6.....	3.8	4.0	14.3	11.8	13.2	3.0	10.6	2.6	1.4	1.8	4.0	6.0
7.....	3.6	4.4	14.5	11.2	12.5	3.0	9.8	2.4	1.3	1.2	6.3	7.7
8.....	3.4	5.5	14.9	10.9	12.0	4.1	8.6	2.0	1.3	1.0	7.8	8.9
9.....	3.4	6.5	15.2	10.6	11.2	3.6	7.2	1.8	1.0	0.8	7.9	9.6
10.....	3.4	6.9	15.5	10.0	10.3	4.0	5.8	1.6	1.0	1.0	7.9	9.7
11.....	3.4	7.2	15.4	9.2	9.3	4.6	4.8	1.6	0.7	1.2	5.8	10.2
12.....	4.2	7.4	15.3	8.5	8.6	4.9	3.7	1.4	0.7	1.3	4.5	10.4
13.....	4.4	8.5	14.9	8.0	7.6	5.0	3.4	1.2	0.7	1.9	3.1	9.8
14.....	6.6	9.5	14.6	7.6	7.0	4.8	3.3	1.0	0.7	2.1	2.5	9.3
15.....	8.1	10.3	14.4	8.0	6.6	4.0	3.3	0.7	0.5	1.7	2.0	8.3
16.....	9.0	10.8	14.2	8.8	5.8	3.7	3.3	0.7	0.5	1.1	2.0	7.1
17.....	9.6	11.5	13.9	9.2	5.2	3.4	3.3	0.7	0.5	0.9	2.0	6.3
18.....	10.0	12.3	13.6	9.2	4.9	3.7	3.3	0.7	0.8	1.4	2.6	6.0
19.....	10.5	13.1	13.2	9.0	4.4	4.8	3.1	0.5	3.0	1.6	2.6	5.3
20.....	10.6	14.2	13.0	8.7	5.4	7.1	2.6	0.5	5.3	1.2	1.9	5.0
21.....	10.2	15.1	12.9	9.4	6.5	8.5	2.0	0.5	6.3	1.2	1.9	5.2
22.....	9.7	15.4	12.9	10.4	7.8	9.1	1.8	0.7	5.0	0.9	1.4	5.5
23.....	9.8	15.4	13.2	10.9	8.0	9.6	1.6	0.7	3.0	0.4	1.4	6.0
24.....	9.9	15.0	13.2	11.8	8.4	10.3	1.4	0.7	2.2	0.3	1.4	7.0
25.....	10.2	14.6	13.3	13.7	7.8	10.5	1.2	0.7	1.5	0.3	1.4	9.4
26.....	10.5	14.3	13.2	16.1	6.2	10.6	2.0	1.0	1.0	0.7	1.4	10.0
27.....	10.1	14.0	13.0	17.4	5.6	10.6	2.6	2.2	1.0	1.0	1.4	10.5
28.....	10.1	14.0	12.9	17.7	5.0	10.7	4.0	2.9	1.0	6.5	1.4	10.6
29.....	9.5	.....	12.8	17.6	6.0	10.9	5.6	2.4	1.0	7.6	4.0	10.7
30.....	8.5	.....	12.7	17.4	6.4	11.1	6.6	1.7	0.8	7.9	6.0	10.6
31.....	7.4	.....	12.6	.....	6.1	.....	7.8	1.4	.....	6.9	.....	10.4
<b>Means.</b>	<b>7.2</b>	<b>9.9</b>	<b>13.9</b>	<b>11.5</b>	<b>8.9</b>	<b>6.2</b>	<b>5.5</b>	<b>1.9</b>	<b>1.6</b>	<b>1.9</b>	<b>3.3</b>	<b>8.2</b>
<b>1901</b>												
1.....	9.9	8.4	6.4	11.6	16.9	18.1	15.4	12.5	15.5	14.3	5.4	4.8
2.....	9.5	8.4	6.5	12.1	16.2	17.8	15.0	12.0	15.5	13.1	5.4	4.8
3.....	10.7	8.5	6.0	14.3	15.6	17.5	14.8	11.0	15.4	12.8	5.4	4.8
4.....	11.2	8.6	5.6	15.4	14.5	17.2	14.5	10.2	15.4	12.5	5.4	4.8
5.....	11.5	8.7	5.4	16.2	13.9	16.8	13.8	9.5	15.4	12.1	5.0	4.8
6.....	11.8	8.8	5.2	16.2	13.2	16.2	13.5	8.5	15.3	12.4	5.0	4.8
7.....	11.8	8.9	5.0	16.0	12.3	15.7	13.3	7.8	14.9	12.4	5.0	4.8
8.....	12.1	9.6	5.0	16.0	11.6	15.1	13.1	7.5	14.6	12.0	5.0	4.8
9.....	11.9	9.9	4.6	16.2	10.6	14.0	12.8	10.0	14.3	11.8	5.0	4.8
10.....	11.6	10.6	4.5	16.8	10.1	13.6	12.3	10.2	14.0	11.3	5.0	5.1
11.....	10.9	10.8	4.3	17.3	9.0	13.2	12.1	10.6	13.5	10.9	5.0	5.0
12.....	10.5	10.9	4.5	17.2	8.6	12.8	11.5	11.2	12.0	10.7	4.8	4.9
13.....	10.0	11.0	4.9	16.8	8.5	12.2	11.3	14.9	12.0	9.5	4.8	4.8
14.....	9.5	11.1	4.9	16.2	8.5	11.8	11.2	16.8	11.9	9.2	4.8	4.8
15.....	10.0	11.6	5.6	15.6	8.5	11.5	11.2	17.4	10.3	8.6	4.8	5.0
16.....	10.4	11.6	6.6	14.8	8.5	11.2	11.2	17.6	9.7	8.1	4.8	5.1
17.....	10.8	11.6	7.1	14.2	8.1	11.2	11.2	17.4	9.2	8.5	4.8	6.2
18.....	11.1	11.2	7.3	13.6	7.2	12.0	11.0	16.7	8.5	8.9	4.8	8.0
19.....	11.5	10.9	6.0	13.2	6.0	12.5	11.0	16.5	8.2	8.9	4.8	8.9
20.....	11.9	10.2	5.4	12.8	5.9	13.2	11.3	16.0	8.5	8.7	4.8	9.4
21.....	12.0	9.7	5.1	12.5	6.9	14.0	12.0	16.0	9.9	8.5	4.8	9.7
22.....	12.2	9.0	5.2	12.3	9.1	14.9	13.4	17.1	10.3	7.5	4.8	10.3
23.....	12.3	8.0	5.2	12.3	11.0	15.7	14.3	17.5	11.0	7.0	4.8	10.8
24.....	12.2	7.5	5.0	12.8	11.6	16.5	15.0	17.3	12.0	6.1	4.8	11.2
25.....	11.9	7.0	4.8	13.1	12.0	17.0	15.3	17.2	14.4	5.9	4.8	11.0
26.....	11.7	6.5	5.5	13.6	13.3	17.1	15.3	17.0	15.3	5.9	4.8	10.7
27.....	11.4	6.2	5.5	15.0	14.0	16.8	15.0	16.8	15.8	5.9	5.0	10.2
28.....	11.0	6.2	6.4	16.6	15.6	16.4	14.3	16.5	15.8	5.9	5.0	9.6
29.....	9.7	.....	9.4	17.2	17.2	16.0	13.9	16.0	15.0	5.5	4.9	9.2
30.....	9.0	.....	10.3	17.2	17.7	15.6	13.4	15.5	14.6	5.4	4.8	9.8
31.....	8.6	.....	11.0	.....	18.0	.....	12.9	15.5	.....	5.4	.....	10.2
<b>Means.</b>	<b>11.0</b>	<b>9.3</b>	<b>5.9</b>	<b>14.8</b>	<b>11.6</b>	<b>14.8</b>	<b>13.1</b>	<b>14.1</b>	<b>12.9</b>	<b>9.2</b>	<b>4.9</b>	<b>7.2</b>

## PEDEE RIVER SYSTEM—PEDEE RIVER, SMITHS MILLS, S. C.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	10.2	10.4	13.2	11.0	7.8	5.5	7.0	2.0	1.8	7.0	5.0	9.0
2.....	10.6	10.2	14.5	11.5	7.5	5.0	7.0	2.0	1.8	7.0	5.4	9.0
3.....	11.4	10.0	15.5	11.8	7.3	4.6	7.6	2.2	1.8	6.0	6.0	9.0
4.....	12.0	11.4	16.5	12.3	7.0	4.0	7.2	2.4	1.8	4.8	5.0	10.4
5.....	14.4	11.8	17.0	12.3	7.0	3.8	6.5	3.0	1.7	4.5	3.0	10.8
6.....	15.3	12.5	17.3	12.8	7.0	3.6	5.5	3.6	1.4	3.8	2.8	11.4
7.....	17.4	13.2	17.6	13.3	7.0	3.5	5.0	4.0	1.4	3.8	1.9	11.6
8.....	17.7	14.9	17.6	13.3	6.7	3.4	3.5	4.0	1.4	5.4	2.3	12.6
9.....	17.7	16.4	17.4	13.0	6.3	3.4	2.8	3.0	3.2	6.5	4.0	13.2
10.....	16.9	16.6	17.2	12.7	6.0	3.0	2.7	2.8	3.8	8.5	4.7	13.8
11.....	16.3	17.0	16.8	12.5	5.8	3.3	2.5	2.6	2.8	9.1	5.0	14.2
12.....	15.5	16.6	16.0	12.3	5.7	3.0	3.0	2.0	4.5	9.5	4.8	14.8
13.....	14.6	16.0	15.5	12.3	5.7	3.2	3.3	2.5	7.0	9.1	4.6	14.7
14.....	13.7	15.5	15.0	12.3	5.7	3.2	5.4	2.9	8.1	8.8	4.0	14.0
15.....	12.9	14.3	14.5	12.5	5.7	3.0	5.4	3.0	8.7	8.5	3.5	13.8
16.....	12.6	14.0	14.0	12.6	6.0	3.0	5.0	3.0	7.5	8.5	3.0	13.3
17.....	11.8	13.0	13.3	12.5	6.3	3.0	4.5	5.0	5.4	8.5	2.8	13.0
18.....	11.0	12.8	13.0	12.3	6.8	3.8	4.0	7.0	3.4	8.0	3.0	12.6
19.....	10.2	12.0	12.8	11.7	7.0	6.5	3.2	8.3	3.0	7.4	3.0	12.4
20.....	9.5	11.6	12.6	11.7	7.5	8.8	2.8	8.5	2.8	6.5	4.0	12.2
21.....	8.8	11.2	12.6	11.4	7.5	9.0	2.4	8.7	2.4	5.5	5.0	12.0
22.....	8.4	11.0	12.8	11.0	7.4	9.7	2.4	9.1	2.2	4.5	7.0	11.8
23.....	8.4	10.8	13.0	10.9	7.3	10.0	2.0	8.0	1.8	3.8	8.5	11.7
24.....	9.0	10.8	13.3	10.7	7.0	10.8	1.8	6.0	1.8	3.1	8.8	11.7
25.....	9.6	10.8	13.4	10.7	6.5	11.3	1.4	5.0	1.8	3.0	8.5	11.7
26.....	9.8	11.3	13.3	10.4	6.0	11.6	1.2	4.0	1.8	2.9	8.0	11.7
27.....	10.0	11.5	13.0	10.0	5.8	11.6	1.4	4.0	1.0	2.8	6.6	11.7
28.....	10.6	12.0	12.5	9.7	5.7	11.4	2.5	4.0	5.0	2.8	6.0	11.7
29.....	10.8	.....	12.2	9.3	5.7	11.0	2.3	2.7	7.0	2.0	7.0	11.7
30.....	10.9	.....	11.9	8.5	6.2	10.5	1.2	2.4	7.0	1.8	8.4	11.6
31.....	10.6	.....	11.5	.....	6.4	.....	2.0	2.0	.....	2.4	.....	11.2
<b>Means</b>	<b>12.2</b>	<b>12.8</b>	<b>14.4</b>	<b>11.6</b>	<b>6.6</b>	<b>6.2</b>	<b>3.7</b>	<b>4.2</b>	<b>3.5</b>	<b>5.7</b>	<b>5.1</b>	<b>12.1</b>
<b>1903</b>												
1.....	10.8	9.6	15.0	18.1	12.7	5.5	9.1	2.5	4.9	3.5	3.5	2.5
2.....	10.0	9.2	14.5	18.2	12.7	6.5	9.4	2.4	4.5	3.2	3.0	2.5
3.....	9.0	10.2	14.2	17.8	12.7	7.0	9.6	2.8	5.2	3.0	2.8	2.5
4.....	9.0	10.2	14.0	17.4	12.5	7.0	9.2	5.3	7.8	2.8	2.5	2.5
5.....	9.0	10.2	13.8	16.8	12.5	7.0	9.0	5.8	8.4	2.8	2.3	2.5
6.....	9.0	10.2	14.4	16.4	12.4	7.0	7.9	6.8	8.2	2.5	2.3	2.4
7.....	9.8	10.2	14.8	16.1	12.2	6.4	8.3	7.1	7.8	2.0	2.8	2.4
8.....	10.6	10.5	15.0	15.9	12.0	6.1	9.0	6.8	6.0	1.8	4.5	2.4
9.....	11.6	10.8	15.3	15.8	11.8	7.5	9.7	7.1	5.0	1.7	5.5	2.4
10.....	12.6	11.3	15.0	15.5	11.5	8.9	10.2	7.4	4.7	1.7	6.2	2.4
11.....	13.8	11.8	14.5	15.0	11.0	9.3	10.4	7.0	4.4	1.7	5.0	2.4
12.....	14.4	13.0	14.3	14.5	10.5	10.5	10.2	6.8	5.7	3.0	4.5	2.4
13.....	14.8	14.0	14.0	14.0	9.8	10.8	10.0	6.1	7.7	4.1	4.0	2.4
14.....	15.0	15.0	13.8	13.2	9.2	11.2	9.6	5.6	8.2	4.9	3.5	3.0
15.....	14.6	16.5	13.8	14.0	8.8	11.6	9.0	5.0	7.0	5.4	2.4	3.5
16.....	14.3	17.3	13.8	14.4	8.4	12.8	8.0	5.2	6.0	4.0	2.4	3.3
17.....	14.1	17.4	13.8	14.8	8.0	13.4	8.5	6.7	5.0	3.2	2.2	3.0
18.....	14.0	17.4	13.8	14.8	7.6	13.4	9.0	7.3	4.0	3.0	2.4	3.0
19.....	12.5	17.4	14.3	14.8	7.2	13.0	9.5	7.9	3.0	2.8	2.4	3.0
20.....	12.0	17.2	14.1	14.9	6.8	12.8	9.2	9.4	7.0	3.5	2.5	3.0
21.....	11.8	17.0	13.9	15.3	6.2	12.5	8.6	9.8	8.0	5.5	2.5	3.0
22.....	11.1	16.7	13.6	15.5	6.0	12.0	8.0	10.0	9.0	6.2	2.5	3.0
23.....	10.5	16.4	13.7	15.3	5.8	11.3	7.0	10.6	9.5	5.0	3.0	3.0
24.....	10.4	16.5	13.0	15.3	5.6	10.5	6.4	10.9	9.9	4.2	4.0	3.0
25.....	10.4	16.5	12.8	14.5	5.4	9.8	5.8	10.7	9.5	4.0	4.5	3.2
26.....	10.4	16.4	12.7	14.3	5.3	9.7	5.2	10.7	8.9	3.5	3.0	3.5
27.....	10.4	16.0	12.7	14.0	5.2	9.4	5.0	9.7	7.0	3.2	2.8	5.5
28.....	10.4	15.6	13.9	13.6	5.0	9.7	4.0	9.0	4.9	5.3	2.5	5.0
29.....	10.4	.....	14.9	13.1	4.9	9.8	3.6	8.0	4.2	4.7	2.5	5.0
30.....	10.4	.....	15.9	13.0	4.6	9.4	3.0	6.7	3.8	4.2	2.5	5.5
31.....	10.0	.....	17.9	.....	5.2	.....	2.6	6.3	.....	4.0	.....	5.5
<b>Means</b>	<b>11.5</b>	<b>13.9</b>	<b>14.2</b>	<b>15.2</b>	<b>8.7</b>	<b>9.7</b>	<b>7.9</b>	<b>7.2</b>	<b>6.5</b>	<b>3.6</b>	<b>3.2</b>	<b>3.2</b>

## DESCRIPTION OF RIVER GAGES, ETC.

## PEDEE RIVER SYSTEM—PEDEE RIVER, SMITHS MILLS, S. C.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	5.0	8.0	14.0	10.6	4.6	1.6	2.8	7.6	10.8	4.6	3.0	4.3
2.....	4.6	7.4	14.2	10.4	4.9	1.5	7.0	8.5	11.2	4.0	2.2	3.7
3.....	4.2	7.2	14.0	10.1	4.5	1.9	8.1	8.9	11.6	3.8	2.0	3.3
4.....	4.0	7.0	13.8	9.8	4.2	2.9	9.0	9.4	12.0	3.5	2.0	3.7
5.....	4.0	7.0	13.6	9.4	4.0	5.4	9.4	10.0	12.2	3.3	2.0	3.7
6.....	4.0	7.0	13.3	9.0	3.8	6.2	9.8	10.7	12.4	2.8	4.0	4.0
7.....	4.0	7.0	13.0	8.6	3.4	7.1	10.0	10.9	12.5	2.4	4.8	5.8
8.....	4.0	6.9	12.7	7.0	3.2	6.6	9.5	11.1	12.6	2.0	7.3	6.6
9.....	4.0	6.7	12.2	6.0	3.0	5.0	8.0	11.2	12.7	1.9	7.4	8.8
10.....	3.8	7.4	11.9	5.2	3.2	3.5	6.5	11.4	12.7	1.8	6.8	9.3
11.....	3.7	9.0	11.5	5.0	3.5	3.3	5.4	11.6	12.4	1.8	6.2	9.7
12.....	3.7	9.4	11.5	5.0	4.0	4.5	3.0	11.8	12.1	1.8	5.5	9.8
13.....	3.8	9.9	12.0	5.0	4.2	5.0	4.6	11.9	12.0	1.8	4.0	9.8
14.....	4.0	10.4	12.2	5.0	4.5	5.4	4.7	12.2	10.8	1.6	3.6	9.0
15.....	4.0	10.6	12.1	4.9	4.3	6.4	5.2	12.6	10.8	1.6	3.6	6.6
16.....	4.0	10.0	12.1	4.9	4.1	7.2	5.4	13.5	11.7	1.6	4.8	5.8
17.....	4.0	9.0	11.8	4.8	3.8	7.2	5.7	14.0	12.0	1.6	7.6	6.0
18.....	4.0	8.2	11.4	4.8	3.5	6.4	5.8	14.3	12.4	1.6	9.0	6.0
19.....	4.0	8.0	11.0	4.0	4.4	4.0	3.7	14.4	12.6	1.5	10.0	6.0
20.....	4.0	7.8	10.5	3.8	4.6	3.5	3.7	14.0	12.6	1.4	9.9	6.0
21.....	4.0	7.8	10.0	3.8	4.1	2.8	3.6	13.6	12.7	0.4	9.5	6.0
22.....	4.0	7.8	9.5	3.8	4.0	3.2	3.3	13.0	12.4	1.5	9.0	6.0
23.....	4.0	8.4	9.0	3.8	6.2	3.6	2.8	12.5	11.9	2.0	8.5	6.0
24.....	4.0	10.5	8.2	3.8	7.8	3.6	4.1	12.2	11.4	2.5	8.0	6.0
25.....	4.0	11.0	7.6	3.5	7.2	3.0	6.0	11.8	9.6	3.6	7.0	6.0
26.....	4.8	11.5	7.4	3.0	6.0	2.6	7.0	11.0	9.0	3.0	5.2	5.7
27.....	8.2	12.5	7.4	3.0	4.8	2.5	7.5	9.8	8.5	2.5	5.0	5.5
28.....	8.9	12.9	8.0	2.8	3.8	1.8	8.1	8.8	7.4	2.0	5.0	5.0
29.....	9.0	13.5	10.0	2.8	2.8	1.7	8.2	8.0	6.2	2.1	4.7	5.0
30.....	8.4	.....	10.3	2.8	2.5	1.7	7.9	9.0	5.6	3.0	4.5	5.0
31.....	8.2	.....	10.5	.....	1.8	.....	7.5	10.0	.....	3.3	.....	5.5
Means.	4.8	9.0	11.2	5.5	4.2	4.0	6.2	11.3	11.2	2.3	5.7	6.1

## PEDEE RIVER SYSTEM—LYNCH CREEK, EFFINGHAM, S. C.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	6.7	5.3	10.8	9.3	10.6	3.5	7.8	5.8	1.9	1.7	3.7	4.0
2.....	6.2	5.3	11.1	11.0	10.0	3.3	8.2	6.2	2.3	1.6	3.6	4.6
3.....	6.1	5.4	11.0	10.6	8.4	3.3	8.2	5.6	2.8	1.6	3.5	5.0
4.....	6.1	5.5	10.8	9.4	8.0	3.5	7.7	5.2	2.7	2.4	2.9	4.6
5.....	5.6	5.1	10.7	8.2	7.6	3.5	4.8	4.3	2.5	2.7	2.9	4.2
6.....	5.1	4.3	10.4	7.3	7.0	3.6	4.0	3.7	2.6	2.9	3.1	4.6
7.....	4.9	4.1	11.5	6.8	6.4	3.9	3.7	3.0	2.0	2.6	3.3	4.9
8.....	4.5	4.5	12.7	6.5	6.0	4.7	4.1	2.8	1.9	2.5	4.4	5.4
9.....	4.5	4.7	12.4	6.4	5.8	5.0	4.6	2.6	1.8	2.4	4.7	5.8
10.....	4.6	5.1	11.3	6.2	5.6	4.6	4.6	2.5	1.8	2.4	5.4	6.3
11.....	5.2	7.2	10.4	6.1	5.4	4.3	3.8	2.4	1.6	2.4	6.1	7.0
12.....	5.3	7.5	9.6	5.9	5.0	4.4	3.3	2.3	1.5	2.4	7.4	7.7
13.....	5.5	8.0	8.9	5.7	5.0	4.8	3.1	2.2	1.5	2.5	7.0	8.2
14.....	5.7	8.5	8.3	5.8	4.9	5.1	3.0	2.2	1.4	2.5	6.5	8.7
15.....	5.7	10.0	8.4	5.9	5.1	4.7	3.2	2.1	1.6	2.4	5.2	8.0
16.....	5.9	10.3	9.3	5.8	4.8	4.1	3.3	2.1	1.8	3.0	5.0	7.0
17.....	6.4	11.2	9.8	5.7	4.5	3.8	3.1	2.0	2.1	3.2	4.7	6.0
18.....	6.5	11.6	9.2	5.5	4.6	3.4	3.4	1.9	2.4	3.3	4.1	4.8
19.....	6.9	12.4	7.9	7.2	5.3	3.8	3.2	1.9	2.8	3.5	3.5	4.2
20.....	7.5	13.0	8.0	7.9	5.0	4.2	3.0	1.8	3.7	3.6	3.3	3.8
21.....	7.6	12.5	7.6	9.2	4.7	5.0	2.8	1.8	3.9	3.1	3.2	4.0
22.....	7.3	12.1	8.2	12.7	4.8	5.7	2.7	1.7	4.0	2.6	3.0	4.2
23.....	6.5	11.0	8.7	14.3	4.6	6.0	2.5	1.6	3.3	2.5	3.0	4.4
24.....	5.6	10.4	9.6	16.2	5.6	7.2	2.5	1.6	2.4	2.4	3.2	4.4
25.....	5.5	10.0	9.7	16.6	5.9	8.0	2.6	2.0	2.3	2.4	3.5	5.0
26.....	5.4	9.8	9.5	16.4	5.2	7.9	2.8	2.1	2.3	2.4	3.8	5.8
27.....	5.4	9.9	8.9	16.0	5.0	7.0	2.9	2.0	2.2	2.5	3.6	6.2
28.....	5.1	10.0	8.3	13.3	4.1	7.0	3.0	1.9	2.2	2.9	3.4	7.4
29.....	4.5	.....	8.2	12.1	4.0	7.4	3.7	1.8	1.8	3.3	3.4	8.4
30.....	5.2	.....	8.2	11.6	3.9	7.6	4.1	1.9	1.7	3.6	3.3	9.0
31.....	5.7	.....	8.9	.....	3.6	.....	4.9	1.9	.....	3.7	.....	10.0
Means.	5.8	8.4	9.6	9.4	5.7	5.0	4.0	2.7	2.3	2.7	4.1	5.9

## PEDEE RIVER SYSTEM—LYNCH CREEK, EFFINGHAM, S. C.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	9.2	7.3	5.9	9.3	8.0	12.9	8.4	4.0	9.0	10.0	3.3	4.7
2.....	8.0	7.2	5.9	12.5	7.5	12.9	8.4	4.6	9.3	8.6	3.3	4.6
3.....	7.1	7.1	5.7	13.7	7.2	12.9	8.4	4.7	9.1	6.5	3.4	4.4
4.....	8.0	7.0	5.5	12.6	7.0	12.4	8.3	4.2	8.7	6.6	3.5	4.2
5.....	8.7	7.6	5.4	11.8	6.8	11.0	7.6	3.8	8.6	6.8	3.5	4.1
6.....	9.5	7.6	5.1	10.8	6.2	10.3	7.0	4.0	8.0	6.6	3.8	4.0
7.....	10.2	7.5	4.9	12.5	5.7	8.4	6.2	4.4	7.0	6.5	3.8	4.0
8.....	10.6	7.4	4.6	14.0	5.4	8.0	5.5	4.5	5.7	5.6	3.9	4.0
9.....	10.4	7.6	4.4	14.5	5.2	7.3	4.0	4.2	4.8	5.4	3.9	4.0
10.....	10.0	8.5	4.8	13.0	4.9	6.5	4.0	6.7	4.3	5.8	3.8	4.2
11.....	9.8	9.7	4.7	12.2	4.4	6.0	4.0	10.0	4.0	5.7	3.8	4.1
12.....	8.7	10.3	5.0	10.8	4.0	6.4	4.0	14.4	4.0	5.6	3.7	4.1
13.....	8.0	10.0	5.5	10.0	4.0	6.3	4.0	14.6	4.0	5.2	4.0	4.0
14.....	6.4	9.5	5.4	8.9	3.9	8.1	4.2	11.0	3.9	4.8	3.9	4.0
15.....	6.0	8.0	5.5	8.0	3.8	9.0	4.5	10.2	3.8	4.5	3.8	4.2
16.....	5.8	7.8	5.6	7.5	3.7	10.0	5.0	9.0	3.8	4.2	3.8	4.5
17.....	6.4	7.0	5.5	7.1	3.6	11.2	5.5	8.4	3.7	4.2	3.8	4.7
18.....	7.2	6.4	5.4	7.4	3.5	12.4	5.5	8.0	3.7	5.0	3.8	4.7
19.....	7.2	6.0	5.0	7.9	3.4	12.4	5.4	7.8	6.7	5.4	3.7	5.0
20.....	7.0	5.4	4.5	8.4	3.3	12.2	4.3	7.6	8.3	5.0	3.7	5.7
21.....	6.9	6.0	4.2	8.7	4.8	16.0	5.5	7.9	10.2	4.5	3.7	5.9
22.....	7.0	6.8	4.0	9.0	8.0	17.2	6.8	8.9	11.1	4.3	3.6	6.0
23.....	7.4	7.0	3.9	9.0	10.8	16.0	8.4	8.6	11.8	4.0	3.6	6.0
24.....	7.9	6.7	3.9	10.0	11.0	14.5	8.6	8.4	13.7	4.0	3.9	5.8
25.....	8.3	5.9	3.9	14.8	11.5	13.2	8.4	8.3	14.5	3.9	4.2	5.5
26.....	8.4	5.9	4.8	14.8	12.3	11.8	7.6	8.2	13.0	3.8	4.3	5.6
27.....	8.6	6.4	6.2	13.2	13.8	10.5	7.0	8.1	11.3	3.6	4.5	5.7
28.....	8.6	5.8	6.9	11.9	15.8	9.0	6.0	8.8	10.0	3.5	4.5	5.9
29.....	7.4	.....	7.0	10.5	15.6	8.4	5.2	9.2	10.2	3.5	4.7	6.7
30.....	8.0	.....	7.4	8.4	14.3	8.4	4.5	9.0	10.3	3.5	4.7	7.1
31.....	8.2	.....	9.0	.....	13.5	.....	4.2	8.8	.....	3.4	.....	7.5
Means.	8.1	7.3	5.3	10.8	7.5	10.7	6.0	7.8	7.9	5.2	3.9	5.0
<b>1902</b>												
1.....	7.9	7.2	11.0	6.2	4.6	5.0	4.2	3.6	4.3	2.7	3.2	3.9
2.....	8.2	7.4	12.0	6.0	4.4	5.2	4.0	3.4	4.2	2.8	3.4	4.2
3.....	8.5	8.2	12.2	7.2	4.2	4.8	4.0	3.2	4.0	2.9	3.8	4.4
4.....	12.2	9.0	12.5	8.0	4.0	4.4	3.8	3.0	3.8	3.0	3.9	4.7
5.....	13.5	9.4	12.3	8.2	4.0	4.0	3.0	3.0	3.6	3.1	3.8	5.2
6.....	13.0	12.0	13.0	8.0	4.2	3.8	2.7	3.2	3.4	3.2	3.6	6.4
7.....	11.6	14.0	13.2	7.8	4.0	3.6	2.5	3.4	3.2	3.3	3.5	6.0
8.....	10.5	15.0	12.7	7.8	4.0	3.5	2.4	3.3	3.0	3.3	3.4	6.4
9.....	10.0	13.9	12.5	8.0	4.0	3.5	2.3	3.2	2.9	3.4	3.2	6.7
10.....	8.7	12.0	12.0	8.0	4.0	3.5	2.0	3.2	2.9	3.5	3.0	6.9
11.....	7.0	10.5	10.5	7.6	4.0	3.4	2.0	3.2	2.9	3.6	3.0	6.7
12.....	6.7	9.7	9.0	7.2	3.9	3.6	2.1	3.0	2.9	3.5	3.1	6.5
13.....	6.5	8.3	8.5	7.0	3.8	3.8	2.5	2.8	3.1	3.4	3.2	6.2
14.....	6.8	8.0	8.0	8.0	3.8	3.7	3.0	2.7	3.3	3.5	3.3	6.0
15.....	6.8	7.8	8.0	8.5	4.0	3.6	3.0	2.6	3.5	3.7	3.4	5.7
16.....	6.7	7.8	8.0	9.0	4.2	3.5	2.9	2.8	3.6	3.8	3.5	5.7
17.....	5.6	7.7	8.0	9.1	4.4	3.5	2.8	3.0	3.6	3.8	3.5	5.2
18.....	5.4	7.7	8.0	9.2	4.5	3.4	2.6	3.0	3.1	4.0	3.4	5.0
19.....	5.5	7.5	8.2	9.0	4.5	3.3	2.4	2.9	2.8	4.2	3.3	4.7
20.....	5.6	7.0	8.2	8.5	4.5	3.2	2.3	3.0	2.6	4.3	3.2	4.5
21.....	5.7	6.8	8.4	7.0	4.7	3.4	2.2	3.4	2.5	4.3	3.4	4.3
22.....	5.6	6.8	8.6	6.5	5.0	3.6	2.1	4.0	2.5	4.2	3.5	4.2
23.....	5.2	8.0	8.8	6.0	5.4	3.9	2.0	4.5	2.5	4.1	3.6	4.1
24.....	5.0	7.5	8.9	6.0	5.8	4.2	2.0	4.7	2.5	4.0	3.6	4.0
25.....	5.6	8.2	8.7	5.8	5.7	4.4	2.0	4.9	2.6	3.8	3.8	4.0
26.....	6.0	8.5	8.2	5.6	5.6	4.8	2.0	4.8	2.7	3.7	3.9	4.0
27.....	6.1	9.0	7.0	5.4	5.6	5.0	2.0	4.6	2.7	3.6	3.9	4.0
28.....	7.6	10.5	6.5	5.2	5.0	5.2	2.1	4.5	2.5	3.4	3.7	3.9
29.....	8.0	.....	6.3	5.0	4.5	4.8	2.8	4.4	2.5	3.2	3.6	3.8
30.....	8.2	.....	6.5	4.8	4.0	4.4	3.4	4.3	2.5	3.0	3.8	3.7
31.....	7.0	.....	6.8	.....	4.5	.....	3.9	4.2	.....	3.0	.....	3.6
Means.	7.6	9.1	9.4	7.2	4.5	4.0	2.7	3.5	3.1	3.5	3.5	5.0

## DESCRIPTION OF RIVER GAGES, ETC.

PEDEE RIVER SYSTEM—LYNCH CREEK, EFFINGHAM, S. C.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	3.6	7.5	8.5	10.0	5.8	4.0	6.3	3.0	4.0	3.8	3.8	3.5
2.....	3.7	7.7	9.0	10.0	5.9	4.0	7.0	3.1	4.0	3.4	3.5	3.7
3.....	3.9	7.9	9.5	10.2	6.0	3.9	7.8	3.2	4.8	3.2	3.2	4.0
4.....	3.9	7.9	9.6	10.5	5.9	4.2	8.0	3.3	5.0	3.2	3.0	4.0
5.....	4.1	7.7	9.7	10.0	6.2	4.5	7.6	3.5	5.0	3.2	3.0	3.8
6.....	4.7	7.5	9.9	10.0	5.1	4.6	7.4	4.0	4.5	3.1	3.0	3.7
7.....	4.9	7.4	9.9	10.3	4.8	4.6	7.0	4.5	4.0	3.1	3.0	3.7
8.....	5.8	8.0	10.2	10.5	4.7	4.7	6.1	5.0	4.0	3.0	3.2	3.6
9.....	5.8	8.7	10.6	10.0	4.6	5.9	5.5	5.6	3.8	3.2	3.4	3.5
10.....	6.2	10.0	9.7	9.5	4.5	6.8	5.0	5.6	3.8	3.4	3.4	3.5
11.....	6.8	12.0	9.0	9.0	4.5	10.0	5.3	6.0	3.5	3.4	3.5	3.5
12.....	7.7	13.0	8.1	8.2	4.4	13.0	5.5	6.4	3.3	3.4	3.7	3.7
13.....	8.4	14.5	7.1	7.5	4.4	13.9	5.7	6.5	3.3	3.6	3.0	3.9
14.....	9.0	16.5	8.0	7.0	4.4	13.5	5.9	6.0	3.3	3.8	4.0	4.0
15.....	8.2	16.6	8.7	6.3	4.4	13.0	6.0	5.0	3.3	4.0	4.1	4.0
16.....	7.6	16.0	8.9	6.0	4.3	12.1	5.6	4.5	3.4	4.2	4.3	4.0
17.....	7.0	16.0	9.1	6.0	4.2	11.0	5.0	4.0	3.6	4.4	4.4	4.2
18.....	6.5	15.5	9.5	5.8	4.2	10.4	4.8	4.2	4.0	4.6	4.4	4.4
19.....	6.1	15.0	9.0	6.0	4.2	9.2	5.4	4.4	4.2	4.8	4.5	4.5
20.....	6.0	14.0	8.1	7.0	4.2	8.0	6.0	4.6	4.4	4.8	4.6	4.6
21.....	6.0	13.5	7.5	9.5	4.2	7.6	6.2	5.0	4.6	5.0	4.6	4.7
22.....	5.8	13.0	7.6	10.0	4.2	7.0	6.0	6.5	4.9	5.0	4.4	4.8
23.....	5.6	12.0	7.9	9.8	4.1	6.6	5.5	7.4	5.2	5.4	4.1	4.8
24.....	5.5	11.0	8.0	9.2	4.1	6.0	5.0	9.0	6.0	5.9	4.0	4.8
25.....	5.4	10.5	8.5	8.6	4.1	5.5	4.6	10.5	6.7	6.0	4.0	4.9
26.....	5.5	10.0	8.9	7.0	4.0	5.0	4.0	10.0	6.8	6.0	4.0	5.0
27.....	5.7	9.0	9.0	6.8	4.0	5.0	3.7	9.5	6.0	5.3	3.9	4.8
28.....	5.9	8.5	9.0	6.5	4.0	5.0	3.5	8.0	5.0	5.1	3.6	4.7
29.....	6.5		9.5	6.1	4.0	4.7	3.2	6.5	4.5	5.0	3.4	4.6
30.....	7.0		10.0	5.8	4.0	5.9	3.0	5.0	4.0	4.5	3.3	4.5
31.....	7.2		10.5		4.0		3.0	4.3		4.0		4.4
<b>Means.</b>	<b>6.0</b>	<b>11.3</b>	<b>9.0</b>	<b>8.3</b>	<b>4.6</b>	<b>7.3</b>	<b>5.5</b>	<b>5.6</b>	<b>4.4</b>	<b>4.2</b>	<b>3.7</b>	<b>4.2</b>
<b>1904</b>												
1.....	4.4	8.0	9.5	8.5	4.0	3.5	4.3	5.2	5.0	4.0	2.4	3.7
2.....	4.4	8.0	9.0	8.0	4.0	4.0	4.2	5.0	5.5	4.0	2.4	4.0
3.....	4.3	7.8	8.4	7.8	4.1	4.4	4.3	5.0	8.0	4.0	2.4	4.4
4.....	4.3	7.6	8.0	7.4	4.0	4.4	4.4	5.4	9.5	3.9	2.5	4.6
5.....	4.3	7.5	8.0	7.0	4.0	4.8	4.6	6.2	10.0	3.8	2.7	4.8
6.....	4.5	7.3	7.6	6.6	4.0	5.0	4.8	7.0	9.6	3.8	2.9	5.2
7.....	4.6	7.0	7.2	6.4	4.0	5.2	4.8	7.5	8.6	3.7	3.0	5.3
8.....	4.8	6.6	6.7	6.0	4.0	5.4	4.6	9.0	7.5	3.6	3.5	5.4
9.....	4.8	6.2	6.3	5.4	4.0	5.0	4.2	9.9	6.0	3.5	3.4	5.4
10.....	4.9	6.0	6.0	5.5	4.0	4.2	4.0	10.2	5.5	3.4	4.0	5.4
11.....	5.0	6.0	6.0	5.2	4.0	3.8	3.9	10.5	5.3	3.3	4.2	5.2
12.....	5.1	6.5	6.4	5.0	4.1	3.8	3.8	11.0	5.1	3.1	4.4	5.0
13.....	4.8	7.0	6.5	5.0	4.2	4.0	3.7	12.0	5.0	3.0	4.6	5.0
14.....	4.6	7.5	7.0	5.0	4.1	4.1	3.9	12.6	5.0	3.0	4.8	4.9
15.....	4.5	8.0	7.1	4.8	4.1	4.0	4.0	12.6	5.4	3.0	5.0	5.0
16.....	4.4	8.5	7.2	4.6	4.2	4.0	4.5	12.0	6.0	2.9	5.2	5.0
17.....	4.4	8.5	7.0	4.5	4.3	3.9	4.5	11.5	5.8	2.8	5.0	4.8
18.....	4.4	8.4	7.0	4.5	4.2	3.8	4.5	10.5	5.7	2.7	4.4	4.6
19.....	4.3	8.3	6.8	4.4	4.2	3.7	4.2	9.0	5.7	2.7	4.0	4.6
20.....	4.3	8.0	6.5	4.2	4.1	3.6	4.0	7.8	5.5	2.7	4.0	4.6
21.....	4.4	7.4	6.4	4.2	4.0	3.6	4.0	7.0	5.5	2.7	4.0	4.5
22.....	4.5	7.0	6.4	4.2	4.2	3.6	4.0	6.0	4.9	2.6	4.0	4.5
23.....	4.5	7.2	6.0	4.1	4.3	3.8	3.8	5.0	4.8	2.6	3.9	4.6
24.....	4.6	7.6	6.3	4.1	4.5	3.9	3.7	4.7	4.4	2.6	3.8	4.7
25.....	4.7	8.0	6.5	4.1	4.5	3.9	3.6	4.5	4.3	2.6	3.7	4.9
26.....	4.9	8.4	6.9	4.1	4.2	4.0	3.6	4.2	4.2	2.6	3.6	5.1
27.....	5.4	9.0	7.5	4.1	4.0	4.1	3.9	4.2	4.2	2.5	3.6	5.6
28.....	5.9	9.4	8.0	4.1	3.9	4.2	4.5	4.1	4.1	2.5	3.6	6.0
29.....	6.5	10.0	8.4	4.0	3.8	4.1	5.0	4.0	4.0	2.5	3.6	6.0
30.....	7.0		9.0	4.0	3.7	4.3	5.6	4.0	4.0	2.4	3.6	5.8
31.....	7.4		8.9		3.6		5.4	4.7		2.4		5.6
<b>Means.</b>	<b>4.9</b>	<b>7.7</b>	<b>7.2</b>	<b>5.2</b>	<b>4.1</b>	<b>4.1</b>	<b>4.3</b>	<b>7.5</b>	<b>5.8</b>	<b>3.1</b>	<b>3.7</b>	<b>5.0</b>

## PEDEE RIVER SYSTEM—BLACK RIVER, KINGSTREE, S. C.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	3.9	4.9	9.1	8.1	10.0	2.9	7.5	3.7	-0.2	-0.4	0.5	1.0
2.....	4.8	4.8	9.4	8.1	9.7	2.7	7.2	4.2	-0.3	-0.4	0.5	1.0
3.....	5.6	4.8	9.6	8.1	9.2	2.4	6.9	4.6	-0.5	-0.4	0.5	1.0
4.....	5.9	4.7	9.8	7.9	9.0	2.2	6.6	4.9	-0.2	-0.4	0.5	1.0
5.....	6.1	4.6	10.0	7.9	8.4	2.2	6.4	4.0	-0.2	-0.4	1.3	2.0
6.....	6.1	4.5	10.2	7.7	8.0	2.7	6.3	2.7	-0.2	-0.4	1.4	2.5
7.....	6.1	4.3	10.0	7.5	7.7	3.1	6.0	2.0	-0.2	-0.3	2.1	2.9
8.....	6.0	4.1	10.0	7.3	7.7	3.1	5.7	2.0	-0.2	-0.2	2.1	2.9
9.....	5.8	4.1	9.9	7.1	6.9	2.7	5.4	1.6	-0.2	0.0	2.1	3.1
10.....	5.8	4.1	9.8	6.7	6.6	2.4	3.9	1.4	-0.2	0.2	1.7	3.0
11.....	5.7	4.3	9.6	6.4	6.2	3.1	3.2	1.2	-0.2	0.2	1.5	2.9
12.....	5.7	4.5	9.4	6.5	5.7	4.1	2.7	0.8	-0.2	0.2	1.4	3.0
13.....	5.7	4.7	9.2	5.9	5.4	5.0	2.3	0.5	-0.2	0.2	1.3	3.2
14.....	5.6	5.0	9.0	5.8	4.7	5.2	2.8	0.4	-0.4	0.2	1.3	3.3
15.....	5.6	5.4	8.7	5.5	4.4	5.1	2.5	0.4	-0.4	0.2	1.2	3.5
16.....	5.7	5.7	8.4	5.3	4.0	4.6	2.2	0.0	-0.4	0.2	1.2	4.0
17.....	5.6	6.0	8.1	5.1	3.6	4.3	1.8	0.0	-0.4	0.2	1.2	4.2
18.....	5.6	6.2	7.9	4.9	3.4	4.3	1.5	0.0	-0.4	0.0	1.2	4.5
19.....	5.7	6.4	7.9	5.2	3.3	3.2	1.3	0.0	-0.4	0.0	1.2	4.6
20.....	5.8	6.7	7.9	6.0	3.3	3.1	1.0	0.0	-0.4	0.0	1.1	4.8
21.....	5.6	7.0	7.8	6.7	3.3	3.0	1.0	-0.1	-0.4	0.0	1.0	5.0
22.....	5.4	7.3	7.7	7.7	3.3	3.0	1.0	-0.1	-0.4	0.0	0.9	5.3
23.....	5.2	7.6	7.4	9.9	3.4	2.7	0.6	-0.1	-0.4	0.0	0.9	5.5
24.....	5.0	7.8	7.4	10.1	3.4	3.7	0.5	-0.1	-0.4	0.0	0.9	5.9
25.....	4.9	8.0	7.4	11.6	3.5	4.5	0.5	-0.1	-0.4	0.1	0.9	6.1
26.....	4.7	8.3	7.4	11.9	3.5	5.3	0.5	-0.2	-0.4	0.2	0.9	6.4
27.....	4.6	8.5	7.4	11.7	3.5	6.4	0.5	-0.2	-0.4	0.4	0.9	6.6
28.....	4.6	8.8	7.7	11.8	3.5	7.4	0.5	-0.2	-0.4	0.5	0.9	6.7
29.....	4.6		7.9	10.9	3.5	8.0	0.8	-0.2	-0.4	0.5	1.0	6.7
30.....	4.8		8.0	10.6	3.5	7.7	1.0	-0.2	-0.4	0.5	1.0	6.8
31.....	4.9		8.1		3.1		2.7	-0.2	-0.4	0.5		7.1
<b>Means.</b>	<b>5.4</b>	<b>5.8</b>	<b>8.6</b>	<b>7.8</b>	<b>5.3</b>	<b>4.0</b>	<b>3.0</b>	<b>1.1</b>	<b>-0.3</b>	<b>0.0</b>	<b>1.2</b>	<b>4.1</b>
<b>1901</b>												
1.....	7.7	8.4	8.0	7.5	8.4	12.0	9.2	4.0	4.6	8.6	1.0	2.5
2.....	8.2	8.5	8.0	7.5	8.3	11.9	8.8	4.0	4.5	8.0	0.9	2.5
3.....	9.1	8.5	7.8	8.1	8.2	11.6	8.5	4.0	4.3	7.3	0.8	2.6
4.....	10.1	8.5	7.4	8.6	7.7	11.4	8.2	3.8	5.3	7.0	0.7	2.6
5.....	10.7	8.5	7.3	9.1	7.0	11.0	8.0	3.7	5.6	6.3	0.7	2.6
6.....	10.9	8.5	7.2	10.0	6.7	10.7	7.9	3.5	7.6	5.4	0.9	2.6
7.....	11.2	8.5	7.1	10.1	6.3	10.3	7.8	3.5	7.9	4.7	1.1	2.6
8.....	11.0	8.5	6.9	10.1	6.2	9.7	7.6	3.7	7.9	4.0	1.3	2.6
9.....	10.8	8.5	6.7	9.8	6.2	9.4	7.4	3.9	7.5	3.8	1.4	2.6
10.....	10.5	8.9	6.5	9.5	6.1	8.8	7.2	4.1	7.2	3.6	1.4	2.6
11.....	10.2	9.2	6.5	9.1	5.9	8.4	7.0	4.2	6.2	3.2	1.4	2.5
12.....	10.2	9.5	6.5	8.8	5.4	8.0	6.8	4.4	5.7	2.9	1.6	2.5
13.....	9.6	9.9	6.7	8.5	5.1	8.0	6.6	4.6	5.0	2.9	1.6	2.5
14.....	9.4	10.1	6.8	8.0	4.5	8.1	6.0	4.8	4.5	2.9	1.6	2.5
15.....	9.0	10.1	6.8	7.6	4.0	8.2	5.5	4.8	4.0	2.8	1.7	2.5
16.....	8.8	10.0	6.8	7.2	3.7	9.0	5.0	4.9	3.3	2.6	1.7	2.7
17.....	8.6	9.9	6.7	7.1	3.1	9.9	4.6	5.0	3.0	2.4	1.7	2.8
18.....	8.4	9.9	6.6	7.0	2.9	11.0	4.0	5.2	3.6	2.3	1.7	2.9
19.....	8.3	9.7	6.5	6.9	2.6	11.6	4.0	5.4	4.2	2.1	1.8	2.9
20.....	8.3	9.5	6.4	6.8	3.0	11.6	3.8	5.5	4.7	1.7	1.9	2.9
21.....	8.3	9.3	6.3	6.7	4.3	11.4	3.7	5.7	4.9	1.5	2.0	3.2
22.....	8.3	8.9	6.1	6.9	6.0	11.1	3.8	6.0	5.6	1.4	2.2	3.4
23.....	8.3	8.7	5.9	7.1	7.9	10.9	4.0	5.8	6.4	1.3	2.2	3.6
24.....	8.3	8.4	5.8	7.5	9.0	10.8	4.3	5.6	7.5	1.3	2.2	3.6
25.....	8.3	8.2	5.6	7.6	10.0	10.6	4.4	5.4	8.8	1.3	2.2	3.8
26.....	8.3	8.1	6.0	7.9	10.4	10.3	4.5	5.2	10.1	1.3	2.2	4.0
27.....	8.4	8.0	6.6	8.0	10.7	10.0	4.7	5.0	10.6	1.2	2.3	4.2
28.....	8.4	8.0	6.9	8.2	11.3	9.5	4.7	5.3	10.6	1.0	2.3	4.4
29.....	8.4		7.3	8.4	11.7	9.3	4.5	5.3	9.8	1.0	2.4	4.6
30.....	8.4		7.5	8.4	11.8	9.3	4.0	5.1	9.0	1.0	2.4	4.8
31.....	8.4		7.5		11.8		4.0	4.8		1.0		5.0
<b>Means.</b>	<b>9.1</b>	<b>9.0</b>	<b>6.8</b>	<b>8.1</b>	<b>7.0</b>	<b>10.1</b>	<b>5.8</b>	<b>4.7</b>	<b>6.3</b>	<b>3.2</b>	<b>1.6</b>	<b>3.1</b>

## PEDEE RIVER SYSTEM—BLACK RIVER, KINGSTREE, S. C.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	5.0	4.7	8.0	7.2	5.0	4.0	0.2	-0.3	0.7	-0.3	0.6	2.0
2.....	5.0	5.3	8.4	7.2	5.0	3.7	0.6	-0.1	0.4	-0.3	0.6	2.5
3.....	5.1	5.7	8.8	7.0	5.0	3.4	0.5	-0.3	0.4	-0.4	0.6	3.0
4.....	5.2	6.0	9.2	6.8	5.0	3.0	0.5	-0.4	0.4	-0.4	0.6	4.2
5.....	5.4	6.2	10.0	6.6	4.8	2.8	0.5	-0.4	0.4	-0.4	0.6	5.0
6.....	5.6	6.2	10.0	6.5	4.7	2.6	0.1	-0.2	0.2	-0.4	0.8	5.5
7.....	6.0	6.3	9.6	6.4	4.6	2.4	0.0	0.4	0.1	-0.4	1.0	6.3
8.....	6.6	7.0	9.4	6.4	4.5	1.8	0.0	1.0	0.0	-0.2	1.3	6.8
9.....	7.2	7.4	9.4	6.5	4.4	1.3	-0.2	1.5	0.0	0.0	1.6	7.3
10.....	7.5	7.7	9.4	6.6	4.4	1.0	-0.2	1.5	0.0	0.2	1.8	8.0
11.....	8.1	7.9	9.0	6.8	4.3	1.0	-0.2	1.2	0.0	0.4	1.9	8.3
12.....	8.1	8.1	8.7	6.9	4.2	1.0	-0.2	0.8	0.0	0.6	2.0	8.0
13.....	7.3	8.1	8.3	6.9	4.0	1.0	0.4	0.4	0.0	0.7	2.0	7.7
14.....	6.9	8.3	8.2	6.9	3.7	1.0	0.8	0.2	0.2	0.9	1.8	7.7
15.....	6.5	8.3	8.2	6.8	3.4	1.0	0.8	0.2	0.4	1.0	1.7	8.0
16.....	5.1	8.0	7.8	6.6	3.0	1.2	0.8	0.5	0.5	1.0	1.7	8.0
17.....	4.8	7.6	7.5	6.4	3.0	1.4	0.8	0.8	0.4	1.0	1.7	8.0
18.....	5.5	7.1	7.5	6.4	3.0	1.7	0.5	1.1	0.4	1.0	1.7	8.0
19.....	5.0	6.7	7.9	6.4	3.0	1.7	0.3	1.4	0.6	1.0	1.7	7.6
20.....	5.0	6.5	8.5	6.4	3.3	1.7	0.2	1.8	0.6	1.1	1.8	7.4
21.....	5.0	6.5	9.0	6.4	3.7	1.7	0.0	1.8	0.4	1.1	2.0	7.1
22.....	5.0	6.5	9.3	6.2	4.0	1.7	-0.1	1.5	0.4	1.1	2.0	7.1
23.....	5.0	6.5	9.3	6.0	4.4	1.6	-0.1	1.1	0.4	1.1	2.0	7.1
24.....	4.9	6.5	9.3	5.9	4.4	1.5	-0.1	1.0	0.3	1.1	2.0	7.1
25.....	4.8	6.7	9.0	5.7	4.4	1.6	-0.2	1.0	0.3	0.9	2.0	7.1
26.....	4.6	6.9	8.7	5.5	4.5	1.6	-0.2	0.9	0.3	0.8	2.2	7.1
27.....	4.5	7.3	8.4	5.3	4.5	1.5	-0.3	0.9	0.0	0.8	2.2	7.0
28.....	4.5	7.7	8.2	5.3	4.5	1.2	-0.4	0.9	-0.2	0.7	1.9	6.6
29.....	4.4	.....	7.9	5.1	4.5	1.0	-0.4	0.9	-0.3	0.7	1.7	6.3
30.....	4.4	.....	7.7	5.1	4.5	0.8	-0.4	0.8	-0.3	0.7	1.6	6.0
31.....	4.4	.....	7.3	.....	4.3	.....	-0.3	0.7	.....	0.7	.....	5.7
Means.	5.6	6.9	8.6	6.3	4.2	1.8	0.1	0.7	0.2	0.5	1.6	6.6
<b>1903</b>												
1.....	4.7	7.2	9.6	9.5	7.5	1.0	8.9	2.5	6.3	7.0	6.0	4.1
2.....	4.4	7.0	9.8	9.6	7.4	1.0	8.7	2.2	6.6	6.0	5.9	4.2
3.....	4.4	7.0	10.0	9.7	7.4	0.8	8.4	2.0	6.2	5.0	5.5	4.3
4.....	5.0	6.9	10.4	9.6	7.4	0.8	8.2	1.9	6.0	5.0	5.0	4.4
5.....	5.6	6.8	10.5	9.6	7.4	0.8	8.0	1.9	6.0	5.0	5.0	4.5
6.....	6.0	6.8	10.4	9.5	6.5	0.8	7.7	1.9	6.5	5.6	4.7	4.6
7.....	6.4	6.8	10.1	9.4	6.5	0.8	7.4	1.8	7.0	3.0	4.7	4.5
8.....	6.8	7.0	10.0	9.1	6.4	2.2	7.0	1.7	7.3	3.0	4.6	4.4
9.....	6.9	7.2	9.9	8.9	6.5	3.8	6.8	1.7	7.3	3.3	4.2	4.3
10.....	6.9	7.4	9.9	8.8	6.5	4.8	6.4	1.7	7.0	3.2	4.0	4.2
11.....	6.9	7.4	9.7	8.7	6.4	5.8	6.0	2.2	6.0	3.1	4.0	4.1
12.....	7.0	8.0	9.4	8.6	6.3	7.0	5.8	2.7	4.7	2.9	4.0	4.2
13.....	7.0	8.6	9.4	8.5	6.3	8.6	5.8	3.0	4.5	2.0	4.0	4.3
14.....	7.0	9.2	9.4	8.5	6.3	9.4	5.8	3.0	4.5	2.0	4.0	4.2
15.....	7.0	10.0	9.4	8.2	6.2	11.3	5.7	3.4	4.5	1.9	4.0	4.1
16.....	7.0	10.6	9.4	8.1	6.1	11.8	5.4	3.4	4.2	1.8	4.1	4.0
17.....	7.0	10.6	9.3	8.0	5.6	11.6	4.9	4.0	4.3	2.0	4.2	4.0
18.....	6.8	10.6	9.2	7.9	5.2	11.2	4.5	4.0	4.8	2.8	4.3	4.0
19.....	6.6	10.6	9.2	8.0	4.9	11.2	4.0	5.2	5.5	3.0	4.4	4.0
20.....	6.5	10.3	9.1	8.1	4.7	10.8	4.0	6.0	6.0	3.4	4.5	4.0
21.....	6.5	10.0	9.0	8.3	4.1	10.7	4.0	6.3	6.3	3.4	4.6	4.1
22.....	6.5	9.8	9.0	8.4	3.6	10.6	4.2	6.3	6.5	3.5	4.7	4.2
23.....	6.5	9.6	8.8	8.4	3.3	9.7	4.5	6.0	6.8	3.6	4.8	4.3
24.....	6.5	9.5	8.8	8.3	2.8	9.4	4.5	6.0	6.8	3.6	4.7	4.4
25.....	6.6	9.4	8.9	8.0	2.5	9.1	4.5	6.0	8.4	4.2	4.2	4.5
26.....	6.6	9.3	8.9	8.0	2.2	8.7	4.5	6.4	8.4	4.5	4.3	5.0
27.....	6.7	9.3	9.0	7.9	2.0	8.5	4.5	6.6	8.4	4.7	4.4	5.2
28.....	6.8	9.3	9.1	7.8	1.8	8.5	4.2	6.6	8.0	5.3	4.3	5.4
29.....	6.8	.....	9.2	7.7	1.6	9.2	3.8	6.3	8.0	5.7	4.2	5.5
30.....	7.0	.....	9.3	7.6	1.6	9.2	3.5	7.0	7.5	6.0	4.1	5.8
31.....	7.2	.....	9.3	.....	1.6	.....	2.8	7.0	.....	6.1	.....	6.0
Means.	6.4	8.6	9.5	8.6	5.0	7.0	5.6	4.1	6.3	3.9	4.5	4.5



## PEDEE RIVER SYSTEM—BLACK RIVER, KINGSTREE, S. C.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1	6.1	7.5	9.9	8.4	3.0	1.4	1.7	0.3	4.6	2.0	0.3	3.5
2	6.5	7.6	9.6	8.2	3.0	1.5	1.7	0.3	4.9	2.4	0.3	3.4
3	6.6	8.0	9.4	8.1	3.1	1.5	1.7	0.6	4.7	2.6	0.4	3.5
4	6.7	8.1	9.3	8.0	3.1	1.1	1.6	0.4	4.8	2.8	0.5	3.6
5	6.2	8.2	9.2	7.4	3.1	1.1	1.6	0.7	5.0	1.0	0.6	3.7
6	6.1	8.3	9.1	7.2	3.1	1.0	1.7	0.5	5.7	1.0	0.6	3.9
7	6.2	8.0	9.2	7.0	3.1	1.0	1.7	0.7	5.9	1.2	0.6	3.9
8	6.3	8.1	9.3	7.3	3.1	1.1	1.7	0.9	6.0	1.4	0.7	3.9
9	6.5	8.1	9.3	7.6	3.1	1.0	1.8	1.0	6.1	1.5	0.8	3.9
10	6.6	8.3	9.1	6.1	3.4	1.1	1.8	1.2	6.0	1.6	0.9	3.9
11	6.6	8.5	9.0	6.4	3.4	1.1	1.9	2.0	6.3	1.7	0.9	3.9
12	6.6	8.1	9.1	5.0	3.4	1.4	1.9	2.6	6.1	1.7	0.9	3.9
13	6.9	8.0	9.0	5.0	3.4	2.4	1.9	3.0	6.3	1.8	0.9	4.0
14	6.9	8.0	8.4	5.0	2.0	2.3	0.0	3.2	6.3	1.8	1.0	4.0
15	6.9	8.5	8.4	5.6	2.0	2.3	0.0	3.3	7.4	1.8	1.1	4.0
16	5.0	8.7	8.4	5.8	2.0	2.6	0.0	3.7	7.5	1.8	1.2	4.0
17	5.0	8.7	8.0	6.1	2.0	2.8	0.0	4.4	7.3	1.9	1.4	4.0
18	5.0	8.7	8.1	6.4	2.0	1.0	0.0	4.7	7.0	0.0	1.4	4.0
19	5.1	8.7	8.2	6.3	2.0	1.0	0.0	5.0	7.3	0.0	1.5	4.0
20	5.2	8.7	8.5	6.8	2.0	2.0	0.0	5.2	6.0	0.0	1.5	3.9
21	5.3	8.7	7.0	5.1	2.0	2.0	0.0	5.7	6.3	0.2	1.7	3.9
22	5.4	8.8	7.0	5.5	2.0	2.3	0.0	5.7	5.0	0.3	2.0	3.8
23	5.5	9.0	7.2	5.6	2.0	2.5	0.0	5.7	5.4	1.7	2.0	3.7
24	5.7	9.0	7.3	4.2	2.2	2.6	0.1	5.0	4.0	1.9	2.4	3.7
25	6.0	9.7	7.1	4.4	2.4	2.8	0.1	5.3	4.4	1.9	2.9	3.7
26	6.0	10.0	7.0	4.6	2.6	1.0	0.2	5.5	4.7	1.9	3.0	3.7
27	6.1	10.0	7.2	4.7	2.8	1.2	0.3	5.3	3.0	0.9	3.2	3.7
28	6.2	10.0	7.5	4.7	2.9	1.5	0.4	5.4	3.4	0.0	3.5	3.7
29	6.8	9.9	8.7	3.0	1.1	1.6	0.5	5.7	3.6	0.2	3.5	3.8
30	7.0		8.5	3.0	1.1	1.7	0.3	4.0	3.2	0.2	3.6	3.8
31	7.2		8.7		1.2		0.2	4.1		0.2		4.0
Means	6.1	8.6	8.4	6.0	2.5	1.7	0.8	3.3	5.5	1.3	1.5	3.7

## POTOMAC RIVER SYSTEM—SHENANDOAH RIVER, RIVERTON, VA.

1901												
1												-0.5
2												-0.5
3												-0.5
4												-0.5
5												-0.5
6												-0.5
7											-1.6	-0.5
8											-1.6	-0.5
9											-1.6	-0.5
10											-1.6	-0.3
11											-1.8	-0.3
12											-1.6	-0.3
13											-1.6	-0.7
14											-1.6	-0.2
15											-1.6	6.6
16											-1.6	14.1
17											-1.6	5.0
18											-1.6	1.0
19											-1.6	-0.1
20											-1.6	-0.1
21											-1.6	-0.1
22											-1.6	-0.1
23											-1.6	-0.1
24											-0.1	-0.1
25											-0.5	-0.1
26											-0.5	-0.1
27											-0.5	-0.1
28											-0.5	0.4
29											-0.5	4.6
30											-0.5	17.6
31												13.6
Means											-1.3	1.8

\* 19.4 during day.

## POTOMAC RIVER SYSTEM—SHENANDOAH RIVER, RIVERTON, VA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	6.0	1.0	27.6	1.0	0.3	-0.9	-1.7	-1.7	-0.4	-0.6	-0.5	-0.2
2.....	3.6	1.0	9.0	1.0	0.3	-0.9	-1.5	-1.3	-0.4	-0.6	-0.5	-0.2
3.....	3.0	1.0	6.0	0.8	0.2	-0.9	-1.5	-0.6	-0.4	-0.6	-0.5	-0.1
4.....	2.0	1.0	4.0	0.8	0.2	-0.9	-1.5	-0.6	-0.1	-0.4	-0.6	1.8
5.....	1.0	0.8	3.0	0.8	0.2	-0.9	-1.5	-0.6	-0.2	-0.4	-0.6	1.9
6.....	1.0	0.6	2.0	0.8	0.1	-0.9	-1.5	-0.6	-0.4	-0.4	-0.6	1.7
7.....	1.0	0.6	2.0	0.8	0.1	-0.9	-1.5	-0.6	-0.4	-0.1	-0.6	1.7
8.....	1.0	0.6	2.0	2.6	1.8	-0.9	-1.5	-0.6	-0.4	-0.2	-0.9	1.7
9.....	1.0	0.6	4.0	5.0	1.2	-0.9	-1.5	-0.6	-0.4	-0.2	-0.9	1.4
10.....	1.0	0.6	7.0	6.0	0.9	-1.0	-1.5	-0.6	-0.6	-0.2	-0.9	1.3
11.....	1.0	0.5	8.0	7.0	0.8	-1.4	-1.5	-0.6	-0.5	-0.2	-0.9	1.3
12.....	1.0	0.4	7.0	6.0	0.6	-1.3	-1.5	-0.6	-0.5	0.3	-0.9	1.3
13.....	1.0	0.2	6.5	4.0	0.3	-1.1	-1.5	-0.9	-0.5	0.5	-0.9	1.3
14.....	1.0	0.0	6.5	3.0	0.2	-1.4	-1.5	-0.9	-0.5	0.5	-0.9	1.3
15.....	0.8	-0.4	4.0	3.0	0.3	-1.4	-1.5	-0.9	-0.5	0.1	-0.9	1.3
16.....	0.8	0.1	3.5	2.0	0.4	-1.4	-1.5	-0.9	-0.7	-0.4	-0.9	1.3
17.....	0.7	0.1	3.0	1.6	0.1	-1.4	-1.5	-0.9	-0.7	-0.5	-0.9	1.5
18.....	0.5	-0.3	3.0	1.0	0.1	-1.6	-1.5	-0.9	-0.8	-0.5	-1.0	1.5
19.....	0.5	-0.6	2.0	1.0	-0.1	-1.5	-1.5	-0.9	-0.8	-0.6	-1.0	1.5
20.....	0.5	-0.6	1.0	1.0	-0.3	-1.5	-1.5	-0.9	-0.8	-0.6	-1.0	1.5
21.....	0.5	-0.6	1.0	1.0	-0.2	-1.6	-1.5	-0.9	-0.8	-0.7	-1.0	1.2
22.....	1.2	0.1	1.0	1.0	-0.4	-1.6	-1.7	-0.4	-0.5	-0.7	-1.0	1.1
23.....	0.8	1.6	1.0	1.0	-0.5	-1.6	-1.7	-0.4	-0.5	-0.7	-0.9	1.5
24.....	0.7	1.6	1.0	0.9	-0.8	-1.6	-1.7	-0.4	-0.5	-0.7	-0.9	1.5
25.....	0.7	3.0	-0.8	0.7	-0.9	-1.6	-1.7	-0.4	-0.5	-0.7	-0.9	1.5
26.....	0.7	a 21.6	-0.8	0.5	-0.7	-1.6	-1.7	-0.4	-0.5	-0.7	-0.9	1.5
27.....	0.7	15.0	-0.8	0.4	-0.7	-1.6	-1.7	-0.4	-0.5	-0.7	-0.2	1.5
28.....	0.7	11.0	-0.8	0.4	-0.7	-1.6	-1.7	-0.4	-0.5	-0.4	-0.1	1.3
29.....	1.8	.....	1.0	0.2	-0.9	-1.6	-1.7	-0.4	-0.5	-0.3	-0.1	1.3
30.....	1.0	.....	1.0	0.3	-0.9	-1.6	-1.7	-0.4	-0.5	-0.3	-0.1	1.3
31.....	1.0	.....	1.0	.....	-0.9	.....	-1.7	-0.4	.....	-0.3	.....	-0.9
Means.	1.2	2.2	3.7	1.9	0.0	-1.3	-1.6	-0.7	-0.5	-0.5	-0.7	1.2
<b>1903</b>												
1.....	-0.5	2.4	8.0	4.0	1.2	0.5	2.0	-0.3	-0.4	-0.4	0.1	-0.5
2.....	-0.2	2.2	6.0	3.0	1.0	0.5	2.0	-0.3	-0.4	-0.4	0.1	-0.5
3.....	4.0	1.8	4.0	2.8	0.7	0.5	1.3	-0.3	-0.4	-0.4	0.0	-0.5
4.....	8.8	1.7	3.5	2.6	0.7	0.5	0.9	-0.3	-0.4	-0.4	0.0	-0.5
5.....	4.2	1.7	3.0	2.4	0.7	0.5	0.7	-0.3	-0.4	-0.4	0.0	-0.5
6.....	3.5	1.7	3.0	2.1	0.7	0.5	0.5	-0.2	-0.4	-0.4	0.0	-0.5
7.....	2.9	1.4	2.5	2.1	0.7	0.9	0.1	-0.2	-0.5	-0.4	0.0	-0.5
8.....	2.5	1.3	2.5	2.0	0.7	1.1	0.1	-0.2	-0.5	0.6	0.0	-0.5
9.....	2.3	1.3	2.5	2.2	0.7	4.0	0.0	-0.2	-0.5	0.5	-0.1	-0.5
10.....	1.8	1.3	2.3	2.1	0.7	10.0	0.0	-0.2	-0.4	0.5	-0.1	-0.5
11.....	1.8	1.3	2.3	2.1	0.6	3.0	0.0	-0.2	-0.4	0.3	-0.3	-0.5
12.....	1.7	1.3	2.1	2.1	0.6	3.0	1.6	-0.2	-0.4	0.3	-0.4	-0.5
13.....	1.5	0.2	2.1	2.0	0.6	2.8	1.6	-0.2	-0.4	0.2	-0.5	-0.5
14.....	Frozen.	0.2	2.1	6.5	0.6	2.7	0.9	-0.2	-0.4	0.2	-0.5	-0.5
15.....	.....	0.2	1.8	6.8	0.6	2.5	0.1	-0.2	-0.4	0.2	-0.5	-0.5
16.....	1.2	0.2	1.8	6.9	0.6	2.5	-0.2	-0.2	-0.4	0.2	-0.5	-0.5
17.....	1.2	0.4	1.8	4.5	0.6	2.1	-0.2	-0.2	-0.4	0.2	-0.5	-0.5
18.....	0.8	0.4	1.8	4.0	0.6	2.1	-0.3	-0.4	-0.4	0.2	-0.5	-0.5
19.....	0.7	0.4	1.8	3.5	0.6	2.1	-0.3	-0.3	6.0	0.2	-0.5	-0.5
20.....	0.4	0.4	1.6	3.4	0.6	2.0	-0.3	-0.1	4.0	0.4	-0.5	-0.5
21.....	0.3	0.4	1.6	3.2	0.6	1.8	-0.3	-0.5	3.0	0.3	-0.5	-0.5
22.....	0.3	0.4	1.9	3.0	0.6	1.8	-0.3	-0.4	1.5	0.3	-0.5	-0.5
23.....	0.2	0.4	8.0	2.7	0.6	1.6	-0.3	-0.4	1.0	0.2	-0.5	-0.5
24.....	0.8	0.4	6.0	2.4	0.6	1.6	-0.2	-0.4	1.0	0.2	-0.5	-0.4
25.....	0.7	0.2	6.0	2.0	0.6	1.1	-0.2	-0.4	1.0	0.2	-0.5	-0.4
26.....	0.7	0.2	5.6	1.8	0.6	0.6	-0.2	-0.4	0.8	0.1	-0.5	-0.4
27.....	0.6	0.2	4.0	1.7	0.6	0.4	-0.1	-0.4	0.6	0.1	-0.5	-0.4
28.....	0.7	2.0	3.0	1.3	0.6	0.4	-0.3	-0.4	0.3	0.1	-0.5	-0.4
29.....	0.9	.....	1.5	1.2	0.3	5.0	-0.3	-0.4	0.2	0.1	-0.5	-0.4
30.....	0.9	.....	1.5	1.2	0.5	2.0	-0.3	-0.4	0.2	0.1	-0.5	-0.4
31.....	2.4	.....	8.0	.....	0.5	.....	-0.3	-0.4	.....	0.1	.....	-0.4
Means.	1.6	0.9	3.3	2.9	0.6	2.0	0.2	-0.3	0.4	0.1	-0.3	-0.5

e 23.5 at 6 p. m.

## 619

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1	-0.5	0.1	0.4	0.4	4.0	0.5	0.7	0.5	0.5	0.5	0.5	0.5
2	-0.5	0.1	0.4	0.4	2.0	1.8	0.5	0.5	0.5	0.5	0.5	0.5
3	-0.5	0.1	0.4	0.4	1.0	1.6	0.5	0.5	0.5	0.5	0.5	0.5
4	-0.5	0.1	0.4	0.4	0.6	1.5	0.5	0.5	0.5	0.5	0.5	0.5
5	-0.5	0.1	0.4	0.4	0.6	1.2	0.5	0.5	0.5	0.5	0.5	0.5
6	-0.5	0.1	0.4	0.4	0.6	1.0	0.5	0.5	0.5	0.5	0.5	0.5
7	-0.5	0.1	0.4	0.4	0.6	1.2	0.5	0.5	0.5	0.5	0.5	0.5
8	-0.5	0.1	1.0	0.4	0.6	1.2	0.5	0.5	0.5	0.5	0.5	0.5
9	-0.5	1.0	11.0	0.4	0.6	1.0	0.5	0.5	0.5	0.5	0.5	0.5
10	-0.5	0.8	11.0	0.4	0.6	0.8	0.5	0.5	0.5	0.5	0.5	0.5
11	-0.5	0.8	3.6	0.4	0.6	0.7	0.5	0.5	0.5	0.5	0.5	0.5
12	-0.5	0.7	3.5	0.4	0.5	0.7	0.5	0.5	0.5	0.5	0.5	0.5
13	-0.5	0.4	3.5	0.4	0.5	0.7	0.5	0.5	0.5	0.5	0.5	0.5
14	-0.5	0.4	3.5	0.4	0.5	0.7	0.5	0.5	0.5	0.5	0.5	0.5
15	-0.5	0.4	3.0	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
16	-0.5	0.4	3.0	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
17	-0.5	0.4	3.0	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
18	-0.5	0.4	11.0	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
19	-0.5	0.4	10.8	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
20	-0.5	0.4	1.0	0.4	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5
21	-0.5	0.4	0.8	0.4	0.5	0.7	0.5	0.5	0.5	0.5	0.5	0.5
22	-0.5	0.4	0.8	0.4	0.5	0.7	0.5	0.5	0.5	0.5	0.5	0.5
23	-0.5	0.4	0.6	0.4	0.5	0.8	0.5	0.5	0.5	0.5	0.5	0.5
24	3.0	0.4	0.4	0.4	0.5	0.8	0.5	0.5	0.5	0.5	0.5	0.5
25	0.2	0.4	0.4	0.4	0.5	0.8	0.5	0.5	0.5	0.5	0.5	0.5
26	0.2	0.4	0.4	0.4	0.5	0.8	0.5	0.5	0.5	0.5	0.5	0.5
27	0.2	0.4	0.4	0.4	0.5	0.8	0.5	0.5	0.5	0.5	0.5	0.5
28	0.2	0.4	0.4	0.4	0.5	0.7	0.5	0.5	0.5	0.5	0.5	0.5
29	0.1	0.4	0.4	0.4	0.5	0.7	0.5	0.5	0.5	0.5	0.5	0.5
30	0.1		0.4	6.0	0.5	0.7	0.5	0.5	0.5	0.5	0.5	0.5
31	0.1		0.4		0.5		0.5	0.5		0.5		0.5
Means	-0.2	0.4	2.5	0.6	0.7	0.8	0.5	0.5	0.5	0.5	0.5	0.5

[illegible]

## DESCRIPTION OF RIVER GAGES, ETC.

## POTOMAC RIVER SYSTEM—POTOMAC RIVER, CUMBERLAND, MD.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	4.7	3.8	11.5	5.0	3.3	2.7	2.4	2.8	0.6	1.1	2.0	2.8
2.....	4.4	3.6	8.0	4.8	3.1	2.7	2.8	3.2	0.5	2.7	2.0	2.6
3.....	4.0	Frozen.	7.0	4.4	3.5	2.5	2.7	2.9	0.4	1.9	1.8	3.7
4.....	3.7		5.7	4.6	3.3	2.4	2.5	2.9	0.4	2.2	1.7	3.3
5.....	3.4		5.1	4.8	3.3	2.2	2.4	2.8	0.3	2.4	1.6	3.0
6.....	3.2		4.8	4.4	3.2	2.2	2.4	2.8	0.3	2.2	1.7	2.8
7.....	2.9		4.5	6.0	3.2	2.2	2.3	3.0	0.3	2.0	1.9	3.0
8.....	3.5		4.4	7.1	3.1	2.1	2.2	2.9	0.2	1.8	1.7	3.2
9.....	3.4		4.9	7.4	3.1	2.1	2.2	2.7	0.2	1.6	1.6	3.1
10.....	3.2		5.2	6.9	3.0	2.1	2.2	2.7	0.2	1.3	1.5	3.0
11.....	3.1		6.1	7.0	3.0	2.2	2.1	2.6	0.2	1.2	1.5	3.8
12.....	3.1		6.9	7.7	2.9	2.7	2.0	2.5	0.2	2.8	1.4	6.5
13.....	3.0		8.3	7.3	2.9	2.2	2.0	2.4	0.1	3.8	1.3	6.0
14.....	2.9		7.2	6.2	2.9	1.9	1.8	2.2	0.1	2.1	1.3	5.9
15.....	2.8		6.3	5.4	2.8	1.9	1.7	2.2	0.1	2.7	1.3	5.7
16.....	2.8		5.8	5.0	2.7	1.8	1.5	2.1	0.1	2.5	1.2	5.6
17.....	2.7	2.7	7.5	4.8	2.7	2.2	1.4	2.0	0.1	2.4	1.2	7.5
18.....	2.6	2.6	6.3	4.4	2.6	2.1	1.3	1.9	0.0	2.2	1.3	5.5
19.....	2.6	2.6	5.6	4.2	2.6	2.0	1.4	1.8	0.0	2.1	1.3	5.9
20.....	2.5	2.5	4.8	4.1	2.7	2.0	2.6	1.8	0.0	2.0	1.3	5.9
21.....	2.5	2.6	4.4	4.0	2.7	2.2	2.0	1.7	0.0	2.0	1.2	5.7
22.....	3.9	2.7	4.4	3.8	3.0	2.0	2.0	1.6	0.0	1.9	1.2	5.9
23.....	3.0	2.6	4.3	3.6	2.9	2.1	1.9	1.6	0.0	1.8	1.3	5.6
24.....	2.9	2.7	4.2	3.6	2.7	1.8	1.9	1.4	0.0	1.6	1.4	4.6
25.....	2.8	3.0	4.0	3.6	2.7	1.6	1.9	1.3	0.0	1.4	1.5	4.4
26.....	2.9	3.8	3.9	3.5	2.8	1.7	1.8	1.2	0.9	1.3	2.5	4.0
27.....	5.0	7.0	3.7	3.3	3.1	2.0	1.7	1.0	0.7	1.1	4.4	3.6
28.....	5.1	8.0	3.8	3.2	3.4	2.2	1.7	1.0	0.5	1.3	3.8	3.3
29.....	5.0		4.8	3.2	3.1	2.3	1.9	0.9	0.5		3.2	3.0
30.....	5.1		4.4	3.4	3.0	1.8	2.8	0.7	0.5		2.8	2.8
31.....	5.1		5.3		2.8		3.0	0.6		2.1		2.7
<b>Means.</b>	<b>3.5</b>	<b>3.6</b>	<b>5.6</b>	<b>4.9</b>	<b>3.0</b>	<b>2.1</b>	<b>2.1</b>	<b>2.0</b>	<b>0.2</b>	<b>2.0</b>	<b>1.8</b>	<b>4.3</b>
<b>1903</b>												
1.....	2.7	5.5	8.0	4.5	3.2	3.0	4.8	2.6	2.0	0.8	1.5	1.5
2.....	2.7	5.5	6.0	4.4	3.2	2.9	4.8	2.5	1.9	0.9	1.5	1.5
3.....	5.5	5.7	5.6	4.2	3.1	2.8	4.9	2.5	1.8	0.9	1.4	1.4
4.....	6.5	7.2	5.0	4.0	3.1	2.8	4.9	2.6	1.7	1.0	1.4	1.4
5.....	5.6	7.0	4.5	3.9	3.0	2.8	4.9	2.6	1.5	1.0	1.5	1.4
6.....	4.8	5.6	4.6	3.8	3.1	2.9	8.0	2.5	1.4	1.1	1.5	1.5
7.....	4.3	5.2	4.8	3.8	3.0	2.9	5.0	2.5	1.4	1.1	1.4	1.5
8.....	4.3	4.8	5.0	4.1	3.2	4.5	5.6	2.4	2.5	1.1	1.4	1.5
9.....	4.3	4.3	5.5	6.2	3.2	4.5	5.3	2.4	2.9	1.2	1.3	1.5
10.....	4.2	4.1	5.5	5.4	3.1	4.4	4.8	2.3	2.8	1.3	1.3	1.5
11.....	4.2	4.0	5.4	5.0	3.0	4.3	4.4	2.3	2.7	1.5	1.3	1.4
12.....	Frozen.	4.0	5.3	4.5	2.9	4.0	3.5	2.3	2.7	1.7	1.2	1.4
13.....		4.0	5.0	4.5	2.8	4.0	3.0	2.2	2.6	1.9	1.2	1.4
14.....	3.7	4.1	4.5	6.8	2.8	3.9	4.0	2.2	2.6	1.9	1.2	1.4
15.....	3.5	4.5	4.0	6.7	2.9	3.9	3.8	2.1	2.5	2.0	1.2	1.4
16.....	3.5	7.3	4.7	7.2	2.8	3.8	3.6	2.1	2.5	2.0	1.3	1.4
17.....	3.4	7.0	4.3	6.2	2.7	3.8	3.4	2.1	2.4	2.4	1.3	1.4
18.....	3.4	6.5	3.8	5.5	2.7	3.7	3.3	2.1	2.4	2.2	1.4	1.4
19.....	3.4	5.3	3.6	5.0	2.6	3.6	3.3	2.2	2.3	2.2	1.4	1.4
20.....	3.3	4.9	3.3	4.8	2.6	3.5	3.2	2.3	2.3	2.1	1.4	1.5
21.....	3.3	4.5	3.5	4.4	2.5	3.6	3.2	2.3	2.2	2.1	1.3	1.5
22.....	3.2	4.1	4.0	4.0	2.6	3.6	3.1	2.4	2.1	2.1	1.3	1.5
23.....	3.1	4.0	4.8	3.8	2.6	3.5	3.1	2.5	2.0	2.0	1.2	1.5
24.....	3.1	3.8	7.0	3.5	2.8	3.5	3.0	2.6	1.9	2.0	1.2	1.6
25.....	3.2	3.7	5.7	3.5	3.1	3.6	2.9	2.6	1.7	1.9	1.2	1.7
26.....	3.3	3.8	5.3	3.5	3.2	3.7	2.9	2.7	1.5	1.8	1.3	1.7
27.....	3.3	4.1	4.6	3.4	3.2	3.8	2.8	2.8	1.2	1.8	1.3	1.6
28.....	3.5	8.1	4.2	3.4	3.1	3.9	2.8	2.8	1.1	1.7	1.3	1.6
29.....	5.8		4.0	3.3	3.1	5.6	2.7	2.8	0.9	1.6	1.3	1.6
30.....	5.4		3.8	3.3	3.0	4.9	2.7	3.5	0.8	1.5	1.3	1.6
31.....	6.0		4.0		3.0		2.6	3.4		1.5		1.5
<b>Means.</b>	<b>4.0</b>	<b>5.1</b>	<b>4.8</b>	<b>4.6</b>	<b>2.9</b>	<b>3.4</b>	<b>3.6</b>	<b>2.5</b>	<b>2.0</b>	<b>1.6</b>	<b>1.3</b>	<b>1.5</b>

## POTOMAC RIVER SYSTEM—POTOMAC RIVER, CUMBERLAND, MD.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	1.5	3.2	3.0	4.4	5.5	5.5	3.4	3.0	0.6	0.0	1.0	1.0
2.....	1.5	3.2	3.0	4.3	5.4	5.5	3.4	3.5	0.5	0.0	1.0	1.0
3.....	1.5	3.1	3.1	4.3	5.4	5.4	3.2	3.4	0.5	0.9	1.0	1.0
4.....	1.5	3.1	3.2	4.3	5.3	5.4	3.2	3.6	0.4	0.9	1.0	1.0
5.....	1.4	3.1	3.2	4.2	5.3	5.3	3.1	3.5	0.4	0.9	1.0	1.0
6.....	1.4	3.7	3.8	4.2	5.3	5.2	3.1	3.4	0.3	0.9	1.0	1.0
7.....	1.4	4.8	4.0	4.2	5.4	5.1	3.0	3.2	0.3	0.9	1.0	1.0
8.....	1.4	4.5	4.5	4.1	5.4	5.0	3.1	3.0	0.2	0.9	1.0	1.0
9.....	1.5	4.3	4.6	4.1	5.5	4.9	3.0	2.9	0.2	0.9	1.0	1.0
10.....	1.5	4.2	4.8	4.1	5.8	4.8	3.0	2.8	0.1	1.0	1.0	1.0
11.....	1.5	4.1	5.0	4.1	6.0	4.7	2.9	2.6	0.1	1.0	1.0	1.1
12.....	1.5	4.1	5.0	4.1	6.4	4.4	2.9	2.5	0.1	1.0	1.0	1.1
13.....	1.5	4.0	5.1	4.0	6.4	4.0	3.1	2.5	0.1	1.0	1.0	1.1
14.....	1.5	4.0	5.1	4.0	6.3	3.8	3.1	2.4	0.1	1.0	1.0	1.1
15.....	1.5	3.9	5.0	4.0	6.1	3.7	3.0	2.3	0.0	1.0	1.0	1.1
16.....	1.5	3.8	5.0	3.9	6.0	3.6	2.9	2.1	0.0	1.0	1.0	1.1
17.....	1.5	3.6	4.8	3.8	5.9	3.5	3.0	2.0	0.0	1.0	1.0	1.1
18.....	1.5	3.4	4.6	3.8	5.8	3.5	3.1	1.9	0.0	1.0	1.0	1.2
19.....	1.5	3.0	4.4	3.8	5.6	3.8	3.1	1.8	0.0	1.0	1.0	1.2
20.....	1.5	2.9	4.2	3.7	5.4	3.9	3.2	1.7	0.0	1.0	1.0	1.2
21.....	1.5	2.8	4.2	3.7	5.3	3.9	3.3	1.6	0.0	1.0	1.0	1.2
22.....	4.0	3.0	5.6	3.6	5.1	4.0	3.4	1.5	0.0	1.0	1.0	1.6
23.....	7.3	3.5	5.7	3.6	5.0	4.0	3.5	1.4	0.0	1.0	1.0	1.8
24.....	6.8	3.5	5.6	3.4	4.9	3.9	3.6	1.3	0.0	1.0	1.0	1.9
25.....	5.6	3.4	5.4	3.7	4.8	3.8	3.5	1.2	0.0	1.0	1.0	2.0
26.....	4.5	3.3	5.2	3.9	4.6	3.7	3.4	1.1	0.0	1.0	1.0	2.5
27.....	4.0	3.2	5.1	4.0	4.4	3.6	3.4	1.0	0.0	1.0	1.0	2.5
28.....	Frozen.	3.1	4.9	5.5	4.4	3.6	3.4	0.9	0.0	1.0	1.0	2.5
29.....		3.0	4.8	5.5	4.5	3.5	3.3	0.9	0.0	1.0	1.0	2.6
30.....	3.4		4.6	5.5	4.5	3.5	3.2	0.8	0.0	1.0	1.0	2.8
31.....	3.4		4.4		5.0		3.1	0.7		1.0		2.8
Means.	2.4	3.5	4.5	4.1	5.4	4.3	3.2	2.1	0.1	0.9	1.0	1.5

POTOMAC RIVER SYSTEM—POTOMAC RIVER, HARPERS FERRY, W. VA.<sup>a</sup>

1900												
1.....	1.6	2.5	3.2	3.7	2.4	2.0	2.2	1.8	0.5	0.0	0.3	2.0
2.....	1.6	2.4	4.9	4.0	2.1	2.0	2.0	1.8	0.5	0.0	0.3	1.8
3.....	1.5	2.3	5.5	3.8	2.0	2.0	1.8	1.8	0.4	0.0	0.3	1.5
4.....	1.5	2.2	5.0	3.6	1.9	2.0	1.8	1.8	0.4	0.2	0.3	2.2
5.....	1.5	2.2	4.7	3.4	1.8	2.0	1.8	1.6	0.4	0.2	0.3	3.4
6.....	1.5	2.2	4.3	3.2	1.6	2.0	1.7	1.5	0.4	0.1	0.3	3.1
7.....	1.5	2.1	4.2	3.1	1.6	2.0	1.7	1.4	0.4	0.1	0.3	3.5
8.....	1.4	2.0	4.0	3.1	1.6	2.0	1.7	1.4	0.4	0.1	0.3	3.5
9.....	1.4	2.0	3.8	3.0	1.6	1.9	1.6	1.3	0.3	0.1	0.3	3.1
10.....	1.4	3.2	3.5	3.0	1.8	1.8	1.6	1.1	0.3	0.1	0.3	3.0
11.....	1.4	3.4	3.2	3.0	1.9	1.8	1.6	1.0	0.3	0.1	0.3	3.0
12.....	1.4	3.0	3.0	3.0	1.9	1.8	1.6	1.0	0.3	0.1	0.4	3.0
13.....	1.4	2.9	3.0	2.8	1.9	1.7	1.6	1.0	0.3	0.0	0.5	3.0
14.....	2.1	5.1	2.9	2.7	1.8	1.7	1.6	1.0	0.2	0.0	0.5	2.8
15.....	2.0	6.3	2.9	2.7	1.8	1.7	1.5	1.0	0.2	0.1	0.4	2.5
16.....	2.0	4.8	2.8	2.7	1.8	1.9	1.3	1.0	0.2	0.2	0.4	2.4
17.....	2.0	4.0	2.8	2.7	1.8	2.2	1.2	0.9	0.2	0.4	0.4	2.4
18.....	2.0	3.3	2.8	2.7	1.8	3.2	1.0	0.9	0.2	0.2	0.4	2.3
19.....	2.1	2.8	2.8	2.7	1.8	8.5	1.0	0.8	0.2	0.2	0.3	2.3
20.....	2.9	2.8	3.0	2.6	2.0	5.8	1.5	0.6	0.4	0.2	0.3	2.3
21.....	6.0	2.7	8.0	2.6	2.8	4.2	1.7	0.6	0.3	0.2	0.3	2.3
22.....	8.0	3.0	8.5	2.9	2.7	3.3	1.3	0.6	0.2	0.2	0.3	2.3
23.....	5.8	6.4	6.9	3.1	2.6	3.0	1.2	0.6	0.2	0.2	0.3	2.3
24.....	5.0	7.1	5.0	2.9	2.6	2.8	1.2	0.5	0.2	0.2	0.3	2.3
25.....	3.5	5.2	3.8	2.9	2.5	2.7	1.2	0.5	0.2	0.3	0.3	2.3
26.....	3.2	4.2	3.2	2.9	2.5	2.7	2.2	0.7	0.0	1.0	0.3	2.2
27.....	3.0	4.1	3.0	2.8	2.3	2.6	2.2	0.6	0.0	0.9	2.3	2.1
28.....	3.0	3.6	3.0	2.8	2.2	2.6	2.0	0.6	0.0	0.5	5.5	2.1
29.....	2.8		3.0	2.6	2.2	2.5	2.0	0.6	0.0	0.4	4.1	2.0
30.....	2.8		3.0	2.6	2.2	2.4	2.0	0.6	0.0	0.3	3.6	2.0
31.....	2.5		3.3		2.2		1.9	0.5		0.3		2.0
Means.	2.6	3.5	4.0	3.0	2.1	2.6	1.6	1.0	0.3	0.2	0.8	2.5

<sup>a</sup>To reduce to zero of gage in use on and after November 1, 1901, add 2.0 feet.

POTOMAC RIVER SYSTEM—POTOMAC RIVER, HARPERS FERRY, W. VA. *a*—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	2.0	2.9	1.8	2.8	3.7	9.0	2.0	-2.0	2.0	1.0	-0.7	0.8
2.....	2.0	2.9	1.8	2.6	3.6	8.0	2.0	-2.0	8.0	0.0	-0.7	0.5
3.....	2.0	2.9	1.8	2.6	3.4	8.0	0.0	-2.0	6.0	-2.0	-0.9	0.5
4.....	1.9	2.9	1.8	7.3	3.2	7.0	0.0	-2.0	2.0	-2.0	-1.0	1.0
5.....	1.9	2.9	1.8	6.9	3.2	4.0	0.0	-3.0	1.0	-2.0	-1.0	1.0
6.....	1.9	2.8	1.8	5.8	3.0	2.0	0.0	-3.0	1.0	-3.0	-1.0	2.0
7.....	1.9	2.7	1.8	5.6	3.0	1.0	0.0	-3.0	0.0	-3.0	-1.0	3.0
8.....	1.9	2.7	1.8	8.5	3.0	5.0	1.0	0.0	-1.0	-3.0	-1.0	2.5
9.....	1.9	2.7	1.8	6.5	2.9	5.0	1.0	1.0	-1.0	-3.0	-1.0	2.0
10.....	1.9	2.6	2.0	5.0	4.3	4.0	1.0	1.0	-1.0	-3.0	-1.0	2.0
11.....	2.0	2.6	3.2	4.3	11.0	2.0	0.0	0.0	-1.0	-3.0	-1.0	2.5
12.....	2.2	2.6	12.2	3.6	6.3	0.0	0.0	-1.0	-1.0	-3.0	-1.0	3.8
13.....	3.2	2.5	10.0	3.1	5.1	0.0	0.0	-2.0	-1.0	-3.0	-1.1	3.5
14.....	4.4	2.5	5.5	3.0	3.9	0.0	1.0	-1.0	-2.0	-3.0	-1.1	3.0
15.....	3.8	2.5	4.8	9.0	3.7	0.0	2.0	-1.0	-2.0	-3.0	-1.1	8.0
16.....	3.3	2.5	4.0	13.8	3.5	1.0	2.0	-2.0	-1.0	-3.0	-1.1	<sup>b</sup> 18.0
17.....	3.2	2.5	3.5	8.5	3.5	5.0	2.0	-2.0	-2.0	-3.0	-1.1	12.0
18.....	3.2	2.5	3.2	5.5	3.5	4.0	3.0	-2.0	-2.0	-3.0	-1.1	8.0
19.....	3.0	2.3	3.0	4.7	3.0	3.0	4.0	-2.0	-2.0	-3.0	-1.1	6.3
20.....	3.0	2.2	3.0	4.5	2.0	2.0	4.0	-1.0	-2.0	-3.0	-1.1	5.0
21.....	3.0	2.0	2.8	10.0	2.0	1.0	3.0	0.0	-2.0	-3.0	-1.1	4.5
22.....	3.0	2.0	3.3	<sup>c</sup> 19.5	3.0	2.0	3.0	0.0	-2.0	-3.0	-1.1	4.2
23.....	3.0	2.0	3.0	14.0	13.0	2.0	1.0	0.0	-2.0	-3.0	-1.2	4.0
24.....	3.0	1.8	3.0	9.5	13.0	2.0	.....	0.0	-3.0	-3.0	1.8	3.0
25.....	3.0	1.8	3.0	6.9	10.0	2.0	.....	-1.0	-3.0	-3.0	6.5	3.0
26.....	3.0	1.8	3.0	6.0	9.0	2.0	.....	-1.0	-3.0	-3.0	6.0	2.8
27.....	3.0	1.8	3.0	5.8	10.0	0.0	.....	-1.0	-3.0	-3.0	3.0	2.9
28.....	3.0	1.8	3.2	4.4	9.0	0.0	.....	-1.0	-3.0	-3.0	2.0	3.0
29.....	2.9	.....	3.0	4.0	10.0	0.0	.....	-1.0	-3.0	-3.0	1.5	5.5
30.....	2.9	.....	2.8	3.7	10.0	0.0	.....	-1.0	0.0	-3.0	1.0	<sup>d</sup> 14.0
31.....	2.9	.....	2.8	.....	10.0	.....	.....	-1.0	.....	-3.0	.....	17.5
Means.	2.7	2.4	3.3	6.6	5.7	2.7	1.4	-1.2	-0.8	-2.7	-0.1	4.8
<b>1902</b>												
1.....	11.0	3.8	22.5	7.5	2.7	1.0	-0.5	0.0	-0.5	-0.5	-0.3	3.0
2.....	8.5	3.4	24.0	6.5	2.7	1.0	1.0	0.5	-0.6	-0.5	-0.3	3.0
3.....	7.0	3.0	14.0	6.0	2.5	1.0	1.0	1.0	-0.6	-0.2	-0.4	4.0
4.....	6.0	3.0	11.0	5.5	2.5	1.0	1.5	2.0	0.0	-0.1	-0.4	5.9
5.....	5.0	2.7	9.5	5.0	2.4	0.5	1.5	2.0	-1.0	0.0	-0.4	6.0
6.....	3.8	2.6	8.0	4.5	2.4	0.5	1.0	1.0	-1.0	-0.5	-0.5	5.6
7.....	3.2	2.5	7.4	4.5	2.3	0.5	1.0	0.5	-1.0	0.0	-0.5	5.3
8.....	3.0	2.0	7.0	6.0	2.4	0.4	0.5	0.5	-1.0	0.0	-0.5	5.0
9.....	3.0	1.8	8.0	16.0	3.0	0.4	0.5	0.0	-1.0	0.0	-0.7	4.8
10.....	2.8	1.8	10.0	14.0	2.5	0.3	0.5	0.0	-1.0	0.0	-0.9	4.5
11.....	2.6	1.0	12.8	13.0	2.3	0.0	0.5	0.0	-1.0	-0.1	-0.7	3.0
12.....	2.0	0.7	13.0	12.0	2.0	0.0	0.5	0.0	-1.0	1.0	-0.2	3.0
13.....	1.6	1.7	14.2	11.0	2.0	0.1	0.5	0.0	-1.0	1.0	-0.5	6.9
14.....	1.4	1.8	14.0	10.0	2.0	0.1	0.5	0.0	-1.0	1.0	-0.5	7.5
15.....	1.2	1.8	12.2	8.0	2.0	0.1	0.0	0.0	-1.0	1.8	-0.5	8.2
16.....	1.2	1.7	12.0	7.2	1.8	0.0	0.0	-0.5	-1.0	1.8	-0.5	7.0
17.....	1.2	1.6	9.5	7.2	1.7	-0.5	0.0	-0.5	-1.2	1.0	-0.4	9.0
18.....	1.2	1.4	11.5	6.0	1.4	-0.5	0.0	0.0	-1.2	-0.5	-0.4	10.8
19.....	1.2	1.4	9.7	5.8	1.0	-0.5	-0.5	0.0	-1.2	-0.3	-0.5	8.2
20.....	1.2	1.2	8.2	4.5	1.0	-0.5	-0.5	0.0	-1.2	0.0	-0.3	7.2
21.....	1.2	1.6	7.5	4.0	1.0	-0.5	0.0	0.0	-1.2	-0.2	-0.5	7.0
22.....	3.4	2.0	6.7	3.5	1.5	0.0	0.0	-0.5	-1.1	0.0	-0.5	6.2
23.....	7.0	4.0	6.7	3.5	1.0	0.0	-0.5	-0.5	-1.1	0.0	-0.5	6.8
24.....	5.8	3.8	6.0	3.0	1.0	0.0	-0.5	-0.5	-1.1	-0.4	-0.4	6.8
25.....	3.4	4.8	5.5	3.0	1.0	-0.1	-0.5	-0.5	-1.1	-0.4	-0.4	5.5
26.....	3.0	15.5	4.0	2.7	1.0	-0.1	-0.5	-0.5	-1.1	-0.3	-0.1	4.0
27.....	3.2	24.0	4.0	2.7	1.0	-0.1	-0.5	-0.5	-1.1	-0.3	1.0	3.5
28.....	8.0	15.7	4.0	2.7	0.7	-0.1	-0.5	-0.5	-1.1	-0.8	3.0	3.0
29.....	7.8	.....	4.0	2.5	0.6	-0.1	-0.5	-0.5	-1.1	-0.5	3.0	2.8
30.....	6.5	.....	6.2	2.5	0.5	-0.5	0.0	-0.5	-1.1	-0.4	3.0	2.5
31.....	5.0	.....	7.5	.....	0.5	.....	0.0	-0.5	.....	-0.3	.....	2.5
Means.	3.9	4.0	9.7	6.3	1.7	0.1	0.2	0.0	-1.0	0.0	-0.1	5.4

<sup>a</sup> To reduce to zero of gage in use on and after November 1, 1901, add 2 feet.<sup>b</sup> 18.3 at 2 p. m.<sup>c</sup> 20.2 during day.<sup>d</sup> 18.0 during day.

## POTOMAC RIVER SYSTEM—POTOMAC RIVER, HARPERS FERRY, W. VA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	2.5	8.6	14.0	8.9	3.4	2.6	9.4	0.6	1.0	0.1	-0.2	-0.2
2.....	2.5	7.6	13.5	8.8	3.3	6.0	7.0	0.8	1.8	0.1	-0.2	-0.2
3.....	6.0	7.6	9.8	7.7	3.2	4.2	5.6	1.0	2.0	0.0	-0.2	-0.3
4.....	12.7	7.7	8.0	7.5	3.0	4.0	5.8	1.0	1.8	0.0	-0.3	-0.3
5.....	11.0	9.7	7.0	7.0	3.0	3.0	5.8	1.0	1.6	0.0	-0.3	-0.4
6.....	8.5	10.0	6.7	6.0	2.8	2.0	6.0	1.4	1.6	0.0	-0.3	-0.2
7.....	7.0	8.0	6.0	5.0	2.6	3.7	10.4	1.6	1.4	-0.1	-0.3	0.0
8.....	6.0	7.0	6.0	5.0	2.3	8.5	7.0	2.0	1.0	-0.2	-0.3	0.0
9.....	5.5	6.0	6.0	6.1	2.0	9.9	4.8	1.5	0.5	1.8	-0.3	-0.2
10.....	3.5	5.5	6.6	7.7	2.0	8.1	3.0	1.4	0.4	1.5	-0.3	-0.2
11.....	3.0	4.0	6.7	7.0	1.9	7.3	3.0	1.6	0.8	1.5	-0.3	-0.2
12.....	3.0	4.0	6.4	6.5	1.8	6.5	4.0	1.4	0.6	1.4	-0.3	-0.2
13.....	3.0	4.0	6.0	6.0	1.7	6.5	5.8	1.0	0.7	1.2	-0.3	-0.2
14.....	2.5	4.2	5.5	6.6	1.7	7.0	4.0	1.0	0.8	1.0	-0.3	-0.2
15.....	2.5	4.2	4.5	14.5	1.5	7.5	4.0	0.8	0.9	0.8	-0.3	-0.3
16.....	2.5	4.2	4.0	14.4	1.3	6.0	3.8	0.8	0.5	0.6	-0.3	-0.3
17.....	2.5	9.0	3.7	13.6	1.2	5.5	3.0	0.6	0.4	0.5	-0.3	-0.3
18.....	2.4	8.7	3.0	11.4	1.0	4.0	2.6	0.6	1.5	0.5	-0.2	-0.4
19.....	2.4	7.0	3.0	10.4	1.0	3.2	2.7	1.0	5.5	0.4	0.0	-0.4
20.....	2.0	5.7	3.0	7.7	-0.7	3.2	2.9	0.6	3.0	0.4	0.0	-0.1
21.....	2.0	5.0	3.0	7.0	-0.5	3.0	2.6	0.6	2.0	0.4	0.0	-0.1
22.....	3.7	4.6	3.5	6.2	-0.4	3.0	2.0	1.0	1.8	0.4	0.2	-0.5
23.....	7.0	4.3	4.5	6.0	-0.4	2.5	1.6	0.8	1.6	0.2	0.4	-0.5
24.....	4.0	4.0	8.5	5.5	-0.4	2.5	1.0	0.6	1.0	0.0	0.2	-0.5
25.....	3.0	4.0	13.0	4.4	-0.3	3.8	1.0	0.5	0.9	0.0	0.0	-0.5
26.....	3.0	4.5	11.0	4.2	1.7	3.8	1.0	0.5	0.9	0.0	-0.2	-0.5
27.....	3.0	5.5	8.5	4.0	2.6	3.9	1.0	0.5	0.8	0.0	-0.2	-0.4
28.....	3.0	5.7	6.7	3.9	2.0	4.0	1.0	0.4	0.6	-0.1	-0.2	-0.4
29.....	7.7	.....	5.0	3.8	2.0	4.4	0.8	1.0	0.5	-0.1	-0.1	-0.4
30.....	9.6	.....	4.0	3.6	2.3	12.8	0.6	2.0	0.4	-0.1	-0.2	-0.4
31.....	9.7	.....	7.0	.....	2.4	.....	0.6	1.8	.....	-0.2	.....	-0.4
<b>Means.</b>	<b>4.7</b>	<b>6.1</b>	<b>6.6</b>	<b>7.2</b>	<b>1.8</b>	<b>5.1</b>	<b>3.7</b>	<b>1.0</b>	<b>1.3</b>	<b>0.4</b>	<b>-0.2</b>	<b>-0.3</b>
<b>1904</b>												
1.....	0.0	2.0	2.0	2.0	7.5	5.0	0.5	0.7	-0.6	-1.0	-2.2	-2.2
2.....	0.0	1.5	2.0	2.8	7.4	8.8	1.0	0.5	-0.6	-0.9	-2.3	-2.4
3.....	0.2	1.2	3.1	3.4	4.0	6.6	1.0	0.2	-0.8	-0.9	-2.4	-2.4
4.....	0.4	1.0	3.0	3.8	3.5	4.0	1.0	0.5	-0.8	-1.0	-2.5	-2.5
5.....	0.4	0.5	3.9	3.1	3.0	4.2	1.0	0.4	-0.8	-1.2	-2.4	-2.5
6.....	0.3	0.2	3.7	3.0	2.8	4.2	1.0	0.5	-0.7	-1.2	-2.4	-2.5
7.....	0.3	1.5	3.7	2.8	2.7	6.8	0.8	0.7	-0.8	-1.2	-2.3	-2.4
8.....	0.3	2.5	6.0	2.5	2.7	6.0	0.5	0.9	-0.9	-1.2	-2.4	-2.4
9.....	0.3	3.9	8.0	2.2	2.6	4.2	1.0	0.4	-0.9	-1.5	-2.4	-2.6
10.....	0.2	5.4	7.1	2.4	2.3	3.0	2.0	0.2	-1.0	-2.0	-2.4	-2.6
11.....	0.2	4.0	6.0	2.9	3.6	3.0	2.5	0.2	-0.6	-2.0	-2.3	-2.6
12.....	0.1	4.0	4.0	3.0	2.8	3.0	3.5	0.6	-0.4	-2.0	-2.2	-2.7
13.....	0.1	3.5	3.6	3.0	2.5	3.0	3.6	0.4	-0.4	-2.0	-2.0	-2.7
14.....	0.0	3.0	3.0	2.8	2.4	2.1	3.0	0.1	-0.5	-2.3	-1.4	-2.7
15.....	0.0	2.5	2.7	2.2	2.4	1.5	2.0	0.1	-0.5	-2.3	-1.4	-2.8
16.....	0.0	2.0	2.4	2.0	2.2	1.0	1.5	0.0	-0.4	-2.3	-1.4	-2.8
17.....	0.2	2.0	2.1	2.0	2.2	0.6	1.0	-0.2	-0.5	-2.3	-1.6	-2.7
18.....	0.3	2.0	2.0	1.9	2.0	0.5	0.8	-0.5	-0.5	-2.4	-1.8	-2.6
19.....	0.3	2.0	1.9	1.9	1.5	1.0	0.5	-0.5	-0.5	-2.4	-1.8	-2.6
20.....	0.2	2.1	1.9	1.8	3.8	1.0	0.5	-0.7	-0.6	-2.4	-1.8	-2.5
21.....	0.2	2.1	1.8	1.5	7.5	1.6	0.3	-0.5	-0.8	-2.2	-1.6	-2.5
22.....	0.2	2.1	1.8	1.4	5.0	1.8	0.1	-0.5	-0.8	-2.2	-1.6	-2.5
23.....	2.5	2.5	2.0	1.0	4.1	2.8	0.1	-0.5	-0.9	-2.0	-1.7	-2.4
24.....	6.2	3.3	2.9	1.0	3.2	2.0	0.1	-0.6	-1.0	-1.5	-2.0	-2.4
25.....	6.4	4.0	4.0	0.9	3.0	1.8	0.3	-0.6	-1.0	-1.5	-2.0	-2.3
26.....	4.0	3.8	3.8	0.5	2.1	1.5	0.3	-0.5	-0.8	-1.4	-2.2	-2.3
27.....	2.7	2.9	3.5	0.5	2.0	1.0	0.2	-0.6	-0.8	-1.8	-2.2	-2.2
28.....	2.7	2.6	3.1	1.0	1.8	0.8	0.7	-0.5	-0.9	-2.0	-2.4	0.0
29.....	2.7	2.0	2.9	4.5	1.8	0.5	0.7	-0.5	-1.0	-2.2	-2.4	0.5
30.....	2.3	.....	2.8	7.5	1.7	0.5	0.8	-0.5	-1.0	-2.2	-2.4	2.0
31.....	2.0	.....	2.4	.....	1.5	.....	0.8	-0.6	.....	-2.2	.....	1.7
<b>Means.</b>	<b>1.2</b>	<b>2.5</b>	<b>3.3</b>	<b>2.4</b>	<b>3.1</b>	<b>2.8</b>	<b>1.1</b>	<b>0.0</b>	<b>-0.7</b>	<b>-1.8</b>	<b>-2.1</b>	<b>-2.1</b>

## DESCRIPTION OF RIVER GAGES, ETC.

## RED RIVER OF THE NORTH, MOORHEAD, MINN.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....						7.8	8.0	8.3	7.7	7.6	7.7	7.6
2.....						7.8	8.0	8.2	7.7	7.6	7.6	7.6
3.....						7.8	8.1	8.2	7.7	7.6	7.5	Frozen.
4.....						7.9	8.2	8.2	7.7	7.6	7.3	
5.....						7.9	9.0	8.2	7.7	7.6	7.0	
6.....						7.9	8.8	8.2	7.6	7.6	6.8	
7.....						7.9	8.6	8.2	7.6	7.6	7.0	
8.....						7.9	8.6	8.2	7.6	7.7	7.2	
9.....						8.0	9.1	8.2	7.6	7.8	7.4	
10.....						8.0	9.0	8.2	7.6	7.9	7.6	
11.....						8.1	8.8	8.2	7.6	8.0	7.6	
12.....						8.1	8.6	8.2	7.6	8.1	7.7	
13.....						8.1	8.6	8.2	7.6	8.1	7.7	
14.....						8.2	8.5	8.2	7.6	8.0	7.8	
15.....						8.2	8.4	8.2	7.6	8.0	8.0	
16.....						8.2	8.3	8.2	7.6	7.9	8.0	
17.....						8.3	8.3	8.2	7.6	7.9	7.8	
18.....						8.3	8.2	8.2	7.6	7.8	7.6	
19.....						8.4	8.2	8.1	7.6	7.8	7.6	
20.....						8.4	8.1	8.1	7.6	7.7	7.6	
21.....						8.5	8.0	8.1	7.6	7.7	7.6	
22.....						8.4	8.0	8.0	7.6	7.6	7.6	
23.....						8.3	7.9	8.0	7.6	7.6	7.6	
24.....						8.2	7.8	8.0	7.5	7.6	7.6	
25.....						8.1	7.8	8.0	7.5	7.6	7.6	
26.....						8.1	7.8	8.0	7.6	7.6	7.6	
27.....					7.9	8.2	7.9	8.0	7.7	7.6	7.6	
28.....					7.9	8.1	8.0	8.0	7.7	7.6	7.6	
29.....					7.9	8.0	8.2	7.8	7.7	7.7	7.6	
30.....					7.9	8.0	8.3	7.8	7.7	7.8	7.6	
31.....					7.8		8.4	7.8		7.8		
Means.....						8.1	8.3	8.1	7.6	7.7	7.6	
<b>1902</b>												
1.....	Frozen.	Frozen.	8.7	9.0	8.1	9.2	9.3	8.2	7.7	7.3	7.5	6.8
2.....			8.7	8.9	8.0	9.1	9.2	8.2	7.7	7.3	7.5	6.8
3.....			8.7	8.6	8.1	9.1	9.2	8.3	7.7	7.3	7.4	6.8
4.....			8.7	8.3	8.1	9.2	9.3	8.4	7.7	7.3	7.4	Frozen.
5.....			8.7	8.1	8.0	9.5	9.4	8.5	7.7	7.3	7.3	
6.....			8.7	8.0	8.1	9.6	9.4	8.5	7.7	7.3	7.3	
7.....			8.7	8.0	8.3	9.8	9.5	8.4	7.7	7.3	7.2	
8.....			8.7	8.0	8.5	9.9	9.5	8.3	7.6	7.3	7.2	
9.....			8.5	8.0	8.6	10.0	9.4	8.3	7.6	7.2	7.0	
10.....			8.3	8.3	8.8	10.1	9.3	8.2	7.6	7.2	6.9	
11.....			8.3	8.2	8.8	10.1	9.1	8.2	7.5	7.2	6.8	
12.....			8.4	8.3	8.8	10.1	9.1	8.2	7.5	7.2	6.8	
13.....			8.7	8.2	8.8	10.0	9.1	8.2	7.5	7.1	6.7	
14.....			8.8	8.2	8.8	10.0	9.1	8.2	7.5	7.1	6.7	
15.....			9.0	8.2	8.7	9.9	9.1	8.2	7.5	7.1	7.0	
16.....			9.8	8.2	8.2	9.8	9.0	8.2	7.5	7.0	7.3	
17.....			10.3	8.2	8.5	9.7	9.0	8.1	7.5	7.0	7.5	
18.....			10.3	8.1	9.0	9.7	8.9	8.0	7.4	7.0	7.8	
19.....			9.5	8.0	9.3	9.7	8.8	7.9	7.4	7.0	7.8	
20.....			9.1	7.9	9.8	9.7	8.7	8.0	7.4	7.0	7.8	
21.....			9.0	7.8	10.0	9.7	8.7	8.0	7.4	7.0	7.8	
22.....			9.1	7.8	10.4	9.7	8.6	7.9	7.4	6.9	7.8	
23.....			9.2	7.8	10.5	9.7	8.6	7.9	7.4	7.0	7.8	
24.....			9.3	7.8	10.3	9.7	8.5	7.9	7.4	7.1	7.8	
25.....		7.6	9.4	7.9	10.3	9.7	8.5	7.9	7.4	7.3	7.8	
26.....		8.2	9.5	7.9	10.4	9.7	8.4	7.8	7.4	7.5	7.7	
27.....		8.4	9.8	8.0	10.0	9.6	8.3	7.8	7.4	7.7	7.6	
28.....		8.7	9.8	8.0	9.6	9.5	8.2	7.8	7.4	7.8	7.4	
29.....			10.0	7.9	9.6	9.5	8.1	7.9	7.4	7.8	7.1	
30.....			9.5	7.9	9.4	9.4	8.2	7.8	7.3	7.7	6.8	
31.....			9.1		9.2		8.2	7.7		7.5		
Means.....			9.1	8.1	9.1	9.7	8.9	8.1	7.5	7.3	7.4	



## RED RIVER OF THE NORTH, MOORHEAD, MINN.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.				12.7	8.6	8.4	7.8	7.2	7.4	7.5	8.1	Frozen.
2.	Frozen.	Frozen.	Frozen.	13.3	8.6	8.4	7.9	7.2	7.4	7.5	8.1	
3.				13.5	8.5	8.3	7.9	7.2	7.4	7.6	8.1	
4.				13.7	8.5	8.3	7.9	7.2	7.4	7.6	8.1	
5.				13.8	8.5	8.3	7.9	7.3	7.4	7.7	8.1	
6.				13.9	8.5	8.3	8.0	7.3	7.4	7.8	8.1	
7.				13.0	8.5	8.2	8.0	7.3	7.3	8.0	8.1	
8.				12.0	8.4	8.2	8.0	7.3	7.3	8.1	8.1	
9.				12.2	8.4	8.1	7.9	7.3	7.2	8.2	8.1	
10.				12.3	8.4	8.0	7.9	7.3	7.2	8.3	8.1	
11.				12.8	8.4	8.0	7.8	7.3	7.2	8.4	8.1	
12.				12.0	8.4	8.0	7.8	7.3	7.3	8.5	8.1	
13.				10.6	8.4	8.0	7.8	7.3	7.4	8.5	8.1	
14.				10.0	8.4	8.1	7.7	7.3	7.5	8.4	8.1	
15.				9.6	8.5	8.1	7.7	7.3	7.6	8.4	8.1	
16.				9.1	8.5	8.2	7.7	7.3	7.6	8.3	8.0	
17.				9.1	8.4	8.2	7.6	7.3	7.6	8.2	8.0	
18.				9.0	8.3	8.1	7.6	7.2	7.7	8.3	8.0	
19.				9.0	8.4	8.0	7.6	7.2	7.7	8.3	8.0	
20.				9.0	8.4	8.0	7.5	7.2	7.7	8.3	8.0	
21.				8.8	8.5	8.0	7.5	7.2	7.7	8.3	8.1	
22.				8.9	8.6	8.0	7.5	7.2	7.7	8.2	8.2	
23.				8.9	8.8	8.0	7.5	7.1	7.6	8.2	8.3	
24.				8.9	8.8	8.0	7.5	7.0	7.6	8.2	8.4	
25.				8.9	8.7	7.9	7.5	7.0	7.5	8.2	8.6	
26.				8.8	8.7	7.9	7.4	7.0	7.4	8.2	8.6	
27.			7.0	8.8	8.7	7.9	7.4	7.0	7.4	8.2	Frozen.	
28.			8.3	8.7	8.6	7.9	7.4	7.0	7.4	8.2		
29.			10.0	8.6	8.5	7.9	7.4	7.2	7.4	8.1		
30.			11.5	8.5	8.4	7.8	7.3	7.4	7.4	8.1		
31.			11.6		8.4		7.3	7.5		8.1		
Means.				10.6	8.5	8.1	7.6	7.2	7.5	8.1	8.1	
<b>1904</b>												
1.				11.3	12.0	9.8	13.7	8.8	7.7	8.0	8.1	7.2
2.	Frozen.	Frozen.	Frozen.	11.0	11.2	9.8	13.0	8.7	7.8	8.0	8.1	Frozen.
3.				11.3	10.8	9.8	12.5	8.6	7.8	8.1	8.1	
4.				11.5	10.5	10.0	12.0	8.6	8.0	8.2	8.1	
5.				11.7	10.5	10.1	11.6	8.5	8.2	8.2	8.0	
6.				11.7	10.4	10.1	11.3	8.5	8.3	8.2	8.0	
7.				11.9	10.4	10.1	11.1	8.5	8.3	8.2	8.0	
8.				12.4	10.4	10.1	11.0	8.5	8.3	8.2	8.0	
9.				11.7	10.5	10.2	10.8	8.4	8.3	8.2	8.0	
10.				11.8	10.6	10.5	10.7	8.4	8.2	8.2	8.0	
11.				12.2	10.6	10.5	10.6	8.3	8.2	8.2	8.0	
12.				12.9	10.6	10.5	10.7	8.3	8.2	8.3	8.0	
13.				14.0	10.5	10.4	10.8	8.3	8.1	8.2	8.0	
14.				15.8	10.6	10.3	10.8	8.3	8.1	8.2	8.0	
15.				17.8	10.6	10.1	10.6	8.3	8.0	8.2	8.0	
16.				19.0	10.1	10.0	10.5	8.3	8.0	8.2	8.0	
17.				19.7	10.0	9.9	10.4	8.3	8.0	8.3	8.0	
18.				20.5	9.9	9.8	10.2	8.3	8.0	8.3	8.0	
19.				21.2	9.8	9.7	10.0	8.3	8.0	8.3	8.0	
20.				21.3	9.7	9.7	9.9	8.2	8.0	8.2	8.0	
21.				20.9	9.7	9.6	9.9	8.2	8.0	8.2	8.0	
22.			8.7	20.2	9.7	9.5	9.5	8.1	8.0	8.2	8.0	
23.			8.7	19.5	9.7	9.5	9.4	8.1	8.0	8.2	8.0	
24.			9.3	18.5	9.7	10.5	9.2	8.0	8.0	8.2	8.0	
25.			9.5	17.7	9.8	11.5	9.0	8.0	8.0	8.3	8.0	
26.			9.5	16.7	9.8	13.3	9.0	8.0	8.0	8.3	8.0	
27.			9.5	16.0	9.8	14.5	9.0	7.9	7.9	8.2	7.7	
28.			9.5	15.0	9.8	14.8	8.9	7.8	7.9	8.2	7.4	
29.			9.5	13.7	9.9	14.8	8.9	7.8	7.9	8.2	7.0	
30.			10.3	12.8	9.9	14.4	8.8	7.7	7.9	8.1	7.2	
31.			10.9		9.9		8.8	7.7		8.1		
Means.				15.4	10.2	10.8	10.4	8.2	8.0	8.2	7.9	

## DESCRIPTION OF RIVER GAGES, ETC.

## ROANOKE RIVER SYSTEM—DAN RIVER, DANVILLE, VA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1			3.2	0.2	0.0	0.0	0.5	0.0				
2			5.0	0.2	0.0	0.0	0.3	0.0				
3			2.6	0.1	0.0	-0.1	0.1	0.0				
4			1.2	0.0	0.0	-0.1	0.0	-0.1				
5			0.7	0.0	0.0	-0.1	0.0	-0.1				
6			0.4	0.0	0.0	-0.1	0.0	-0.2				
7			1.7	-0.1	0.0	-0.2	0.0	-0.2				
8			1.8	-0.1	-0.1	-0.2	0.2	-0.2				
9			1.7	-0.2	-0.1	-0.2	0.2	-0.3				
10			1.7	-0.2	-0.1	-0.2	0.2	-0.3				
11			1.3	-0.2	-0.2	-0.2	0.1	-0.3				
12			0.8	-0.1	-0.2	-0.2	0.1	-0.3				
13			0.6	-0.1	-0.2	0.0	0.0	-0.3				
14			0.3	-0.1	-0.2	0.3	0.0	-0.3				
15			0.3	-0.2	-0.2	0.8	0.0	-0.3				
16			0.8	-0.2	-0.3	0.7	0.0	-0.3				
17			1.9	-0.2	-0.3	1.0	0.0	-0.3				
18			1.0	-0.2	-0.1	0.8	-0.1	-0.3				
19			1.1	4.7	0.2	0.4	-0.1	-0.4				
20			1.8	4.3	0.1	0.3	-0.1	-0.4				
21			1.8	2.0	0.1	0.2	-0.1	-0.4				
22			1.5	3.2	0.0	0.1	-0.1	-0.4				
23			1.1	2.4	0.0	0.1	1.7	-0.4				
24			0.8	1.2	0.3	3.5	1.4	-0.4				
25			0.5	0.9	1.2	3.2	1.0	-0.4				
26			0.7	0.9	2.0	1.7	0.5	-0.4				
27			0.4	0.7	0.9	1.4	0.3	-0.4				
28			0.3	0.4	0.4	0.9	0.2	-0.4				
29			0.2	0.2	0.3	0.5	0.1	-0.4				
30			0.1	0.1	0.1	0.3	0.1	-0.4				
31			0.3		0.0		0.0	-0.4				
Means			1.2	0.7	0.1	0.5	0.2	-0.3				
1901												
1			-0.3	0.4	0.1	0.3	0.2	0.2				
2			-0.3	0.5	0.1	0.2	0.2	0.1				
3			-0.3	7.8	0.1	0.2	0.1	0.1				
4			-0.3	5.6	0.0	0.1	0.3	0.0				
5			-0.3	1.5	0.0	0.1	0.1	0.0				
6			-0.3	0.9	0.0	0.0	0.1	3.5				
7			-0.3	0.6	0.0	0.3	0.4	8.1				
8			-0.4	0.6	0.7	0.2	0.5	2.6				
9			-0.4	0.4	0.7	0.2	0.7	0.9				
10			-0.4	0.3	0.5	0.1	0.4	0.5				
11			-0.2	0.2	0.9	0.0	0.3	0.3				
12			-0.2	0.2	0.5	0.0	0.1	1.3				
13			-0.3	0.2	0.3	0.0	0.6	2.6				
14			-0.3	0.5	0.2	0.0	7.5	5.5				
15			-0.3	1.6	0.1	2.7	9.9	4.8				
16			-0.3	0.7	0.1	2.5	4.4	4.7				
17			-0.3	0.4	0.0	2.0	1.8	4.8				
18			-0.3	0.2	0.0	1.3	2.0	4.5				
19			-0.3	0.2	1.3	0.7	1.6	3.1				
20			-0.3	0.6	1.0	0.4	1.2	2.6				
21			-0.3	4.8	1.4	0.5	0.6	2.0				
22			-0.3	2.4	7.0	0.5	0.4	1.1				
23			-0.3	2.0	10.6	0.4	0.2	0.5				
24			-0.4	0.9	2.9	0.2	0.2	0.4				
25			-0.4	0.8	1.9	0.1	0.1	1.5				
26			3.6	0.7	1.5	0.0	0.1	1.0				
27			4.4	0.5	1.5	0.8	0.4	0.8				
28			1.3	0.3	1.7	0.5	0.2	1.5				
29			0.9	0.2	1.4	0.2	0.1	1.2				
30			0.5	0.1	0.8	0.1	0.1	0.7				
31			0.9		0.5		0.4	0.5				
Means			0.1	1.2	1.2	0.5	1.1	2.0				

## ROANOKE RIVER SYSTEM—DAN RIVER, DANVILLE, VA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....			5.2	0.6	0.4	0.1	0.7	0.5	-0.2	0.4	0.1	1.2
2.....			2.1	0.3	0.3	0.0	0.4	0.2	-0.2	0.6	0.1	1.4
3.....			1.8	0.2	0.2	0.0	0.2	0.1	-0.2	0.3	0.0	4.5
4.....			1.8	0.2	0.1	0.0	0.1	0.0	0.3	0.2	0.0	2.0
5.....			1.4	0.6	0.1	0.0	0.0	0.0	0.5	0.6	0.0	1.6
6.....			0.7	0.6	0.1	0.0	0.0	0.0	0.3	6.4	0.0	2.1
7.....			0.5	0.5	0.1	-0.1	0.0	0.4	0.2	0.8	0.0	1.0
8.....			0.4	1.8	0.9	-0.1	-0.1	0.3	0.1	0.5	0.0	0.6
9.....			1.1	1.0	0.6	-0.1	0.6	0.1	0.3	0.3	0.0	0.4
10.....			0.7	0.4	0.4	-0.1	0.8	0.0	0.2	0.2	-0.1	0.2
11.....			0.6	0.3	0.3	-0.1	0.5	0.2	0.1	0.7	-0.1	0.2
12.....			0.4	0.2	0.2	-0.1	0.3	0.1	0.0	2.1	-0.1	0.1
13.....			0.3	0.2	0.1	0.1	0.2	0.1	0.0	0.9	-0.1	0.3
14.....			0.2	0.1	1.4	0.1	0.1	0.0	0.0	0.5	-0.1	1.0
15.....			0.2	0.1	0.9	0.1	0.0	0.5	0.0	0.3	-0.2	0.6
16.....			0.2	0.1	0.7	0.6	0.0	0.3	-0.1	0.2	-0.2	0.4
17.....			3.9	0.1	0.6	6.5	-0.1	0.4	-0.1	0.2	-0.2	1.5
18.....			1.4	0.1	1.4	1.4	-0.1	0.3	-0.1	0.1	0.3	1.4
19.....			0.7	0.3	0.9	0.6	-0.1	0.1	-0.2	0.1	1.6	0.8
20.....			0.4	0.2	1.1	0.4	-0.1	0.0	-0.2	0.1	0.5	0.6
21.....			0.2	0.2	0.8	0.3	-0.2	0.0	-0.2	0.0	0.3	0.5
22.....			0.2	0.1	0.5	0.2	-0.2	0.3	-0.2	0.0	0.2	1.8
23.....			0.1	0.1	0.4	0.2	-0.2	0.1	-0.2	0.0	0.1	1.7
24.....			0.0	0.1	0.3	0.1	-0.2	0.0	-0.2	0.0	0.1	1.2
25.....			0.0	0.0	0.6	0.4	-0.2	0.0	-0.2	-0.1	0.1	0.9
26.....			0.0	0.0	0.4	0.5	-0.2	-0.1	0.0	-0.1	0.6	0.6
27.....			-0.1	0.2	0.9	0.5	-0.2	-0.1	0.0	-0.1	0.7	0.3
28.....			-0.1	0.1	0.6	0.9	-0.3	-0.1	-0.1	0.6	0.5	0.2
29.....			2.2	0.5	0.3	0.7	-0.3	-0.1	-0.1	0.5	0.3	0.2
30.....			2.4	0.8	0.2	0.5	-0.3	-0.2	-0.1	0.4	0.2	0.4
31.....			0.1		0.1		0.7	-0.2		0.2		0.3
<b>Means.</b>			1.0	0.3	0.5	0.5	0.1	0.1	0.0	0.5	0.2	1.0
<b>1903</b>												
1.....	0.1	0.6	4.4	2.0	0.5	0.9	0.7	0.8	0.2	-0.3	-0.1	-0.1
2.....	0.1	0.4	1.7	1.5	0.5	1.0	0.5	1.2	0.2	-0.3	-0.1	-0.1
3.....	6.8	0.3	1.4	1.1	0.6	0.8	0.3	0.9	0.1	-0.3	-0.1	-0.1
4.....	5.2	1.2	0.9	1.4	0.5	0.5	0.2	0.5	0.1	-0.3	-0.1	-0.2
5.....	1.9	4.7	0.8	1.1	0.3	0.4	0.6	0.9	0.0	-0.3	0.3	-0.2
6.....	1.4	1.5	0.7	0.7	0.2	1.2	0.4	0.6	0.0	-0.3	1.2	-0.2
7.....	1.0	1.1	0.6	0.4	0.2	3.0	0.8	0.7	0.0	-0.3	0.4	-0.2
8.....	0.7	1.4	0.9	3.8	0.2	3.3	0.5	0.5	0.0	-0.3	0.2	-0.2
9.....	0.5	2.0	1.7	5.4	0.1	3.5	0.4	0.3	0.5	1.0	0.1	-0.2
10.....	0.4	1.8	0.8	2.2	0.1	2.6	0.2	0.2	0.3	0.6	0.1	-0.2
11.....	0.2	2.5	1.1	1.9	0.1	2.4	0.6	0.2	0.2	0.3	0.1	-0.2
12.....	0.6	3.2	1.3	1.4	0.0	2.2	0.5	0.4	0.1	0.2	0.0	-0.2
13.....	0.3	1.7	1.5	0.8	0.0	1.2	0.9	0.3	0.0	0.2	0.0	-0.2
14.....	0.2	1.0	1.3	1.5	0.0	0.9	3.4	0.6	0.0	0.1	0.0	-0.2
15.....	0.2	0.6	1.1	2.0	0.0	0.6	1.7	0.5	0.0	0.0	0.0	-0.3
16.....	0.1	0.4	0.9	1.8	-0.1	0.4	0.7	0.4	0.0	0.0	-0.1	-0.3
17.....	0.1	8.6	0.8	1.4	-0.1	0.3	0.5	0.4	0.1	0.0	0.1	-0.3
18.....	0.1	7.1	0.6	0.9	-0.1	0.2	0.3	0.7	1.5	0.5	0.6	-0.3
19.....	0.0	1.3	0.6	0.7	-0.1	0.2	0.3	1.0	0.7	0.3	0.4	-0.4
20.....	0.0	1.0	0.5	0.5	-0.1	3.2	0.2	0.9	0.3	0.2	0.2	-0.4
21.....	1.0	0.8	1.4	0.3	-0.1	1.3	0.1	0.6	0.1	0.1	0.2	-0.1
22.....	1.3	0.6	7.6	0.2	-0.1	1.4	0.1	0.4	0.1	0.1	0.1	0.4
23.....	1.1	0.5	8.6	1.2	-0.2	1.8	0.3	0.3	0.0	0.1	0.1	0.4
24.....	0.8	0.5	8.5	1.4	-0.2	0.8	0.2	0.2	-0.1	0.0	0.1	0.3
25.....	0.6	0.4	3.2	0.8	0.2	0.6	0.1	0.1	-0.1	0.0	0.1	0.1
26.....	0.4	0.3	2.2	0.6	0.6	0.5	0.1	0.1	-0.2	0.0	0.0	0.1
27.....	0.3	0.3	1.4	1.6	0.5	3.9	0.1	0.1	-0.2	0.0	0.0	0.1
28.....	1.2	1.8	0.9	1.5	0.7	1.8	0.1	0.0	-0.2	0.0	0.0	0.1
29.....	0.9		0.6	0.9	1.9	1.5	0.0	0.0	-0.2	0.0	0.0	0.0
30.....	1.1		2.4	0.6	1.7	0.9	0.0	0.3	-0.2	0.0	0.0	0.0
31.....	0.8		4.1		1.2		0.0	0.3		0.0		0.0
<b>Means.</b>	0.9	1.7	2.1	1.4	0.3	1.4	0.5	0.5	0.1	0.0	0.1	-0.1

## DESCRIPTION OF RIVER GAGES, ETC.

## ROANOKE RIVER SYSTEM—DAN RIVER, DANVILLE, VA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	-0.1	Frozen.	0.0	0.0	0.1	0.4	0.4	0.1	0.4	-0.3	-0.6	-0.4
2.....	-0.1		0.0	0.0	0.0	1.0	0.2	0.6	1.2	-0.3	-0.6	-0.4
3.....	-0.1	0.1	0.0	-0.1	0.0	0.6	0.1	0.8	1.4	-0.3	-0.6	-0.4
4.....	-0.2	0.8	0.0	-0.1	-0.1	0.4	0.0	0.7	0.8	-0.3	-0.6	-0.4
5.....	-0.2	0.2	-0.1	-0.1	-0.1	0.4	-0.1	0.4	0.4	-0.3	-0.6	0.0
6.....	-0.2	0.2	-0.1	-0.1	-0.1	0.3	-0.1	0.5	0.2	-0.3	-0.6	0.5
7.....	-0.2	0.4	0.2	-0.1	-0.2	0.6	-0.1	1.0	0.1	-0.4	-0.6	0.6
8.....	0.0	0.8	2.0	-0.1	0.3	0.4	-0.2	1.0	0.0	-0.4	-0.6	0.4
9.....	-0.1	0.8	1.2	-0.1	0.2	0.2	0.2	1.0	-0.1	-0.4	-0.6	0.4
10.....	-0.1	0.6	0.6	-0.1	0.2	0.1	0.0	4.4	-0.1	-0.4	-0.6	0.2
11.....	-0.1	0.4	0.4	-0.1	0.1	0.0	-0.1	1.5	-0.2	-0.4	-0.6	0.1
12.....	0.1	0.3	0.3	-0.1	0.1	0.0	0.1	0.8	-0.2	-0.4	-0.6	0.1
13.....	0.1	0.2	0.2	-0.2	0.0	0.0	0.1	0.5	-0.2	-0.4	0.0	0.0
14.....	0.0	0.2	0.2	-0.2	0.0	-0.1	0.0	0.3	-0.3	-0.4	0.0	0.0
15.....	0.0	0.3	0.2	-0.2	0.0	-0.2	0.0	0.2	1.0	-0.4	-0.1	0.0
16.....	-0.1	0.3	0.1	-0.2	0.0	-0.2	0.0	0.1	0.3	-0.4	-0.2	0.0
17.....	-0.1	0.2	0.1	-0.2	0.0	-0.2	0.0	0.1	0.0	-0.5	-0.2	0.0
18.....	-0.1	0.1	0.0	-0.2	0.2	-0.3	-0.1	0.0	0.0	-0.5	-0.3	0.1
19.....	-0.2	0.0	0.0	-0.2	1.7	0.0	-0.2	0.0	-0.1	-0.5	-0.3	0.1
20.....	-0.2	0.1	0.0	-0.2	0.6	0.4	-0.2	0.2	0.1	-0.6	-0.3	0.0
21.....	-0.2	0.9	-0.1	-0.2	0.3	0.6	-0.2	1.0	-0.1	-0.4	-0.3	0.0
22.....	-0.2	2.0	0.0	-0.3	0.1	0.3	-0.2	0.8	-0.2	-0.5	-0.4	0.0
23.....	0.0	2.2	0.4	-0.3	0.1	0.1	0.1	1.4	-0.2	-0.5	-0.2	0.1
24.....	0.6	0.9	1.8	-0.3	0.0	0.0	0.8	0.7	-0.3	-0.5	-0.3	0.3
25.....	0.3	0.5	1.6	-0.3	0.0	0.0	0.4	0.4	-0.3	-0.5	-0.3	0.2
26.....	0.2	0.3	0.6	-0.3	0.0	0.0	0.2	0.2	-0.3	-0.5	-0.3	0.2
27.....	0.2	0.2	0.4	-0.1	-0.1	-0.1	0.1	0.2	-0.3	-0.5	-0.3	0.1
28.....	0.2	0.1	0.4	0.1	-0.1	-0.1	0.4	0.0	-0.3	-0.5	-0.4	0.3
29.....	0.2	0.1	0.3	0.4	-0.2	0.3	1.2	0.0	-0.3	-0.5	-0.4	0.4
30.....	Frozen.		0.1	0.1	-0.2	0.1	0.6	-0.1	-0.3	-0.5	-0.4	0.4
31.....			0.0		0.0		0.3	-0.2		-0.6		0.4
Means.	0.0	0.5	0.3	-0.1	0.1	0.2	0.1	0.6	0.1	-0.4	-0.4	0.1

## ROANOKE RIVER SYSTEM—ROANOKE RIVER, CLARKSVILLE, VA.

1900												
1.....		2.4	4.8	4.5	2.9	4.0	2.9					
2.....		3.6	4.3	4.4	2.8	3.8	2.6					
3.....		8.5	4.2	4.2	2.7	3.2	2.5					
4.....		7.1	4.1	4.3	2.5	2.9	2.4					
5.....		6.3	3.9	4.0	2.4	2.9	2.4					
6.....		5.9	3.6	3.8	2.6	2.8	2.1					
7.....		5.3	3.1	3.9	2.8	2.7	2.0					
8.....		4.7	2.9	4.2	3.4	2.5	1.8					
9.....		4.2	2.7	4.3	3.1	2.5	1.8					
10.....		4.9	2.6	4.5	2.9	2.4	1.8					
11.....		5.4	2.6	4.3	2.8	2.2	1.9					
12.....		6.0	2.9	4.2	2.8	2.1	2.0					
13.....		5.7	3.8	3.8	3.1	1.9	1.9					
14.....		5.5	4.1	3.7	3.5	2.8	1.8					
15.....		5.1	4.3	3.5	3.9	3.1	1.5					
16.....		4.8	4.0	3.4	4.4	2.9	1.3					
17.....		5.3	3.8	2.8	5.8	2.3	2.0					
18.....		6.3	4.0	2.4	6.2	2.3	1.5					
19.....		6.5	12.5	4.2	4.8	2.1	1.2					
20.....		6.2	14.3	4.5	3.6	2.0	1.7					
21.....		7.2	13.0	4.2	3.0	1.8	1.9					
22.....		6.0	10.0	3.6	2.9	1.5	2.1					
23.....		5.8	11.1	3.2	2.7	3.6	2.3					
24.....		5.4	7.2	3.6	3.5	4.9	2.9					
25.....		5.2	5.8	5.4	7.2	5.0	2.5					
26.....		5.0	5.5	5.6	5.4	6.8	2.2					
27.....		6.2	5.1	5.0	4.1	7.9	2.0					
28.....		6.3	4.8	3.7	4.3	8.0	1.8					
29.....		5.5	4.6	3.2	4.2	4.7	1.9					
30.....		5.1	3.9	3.0	4.1	4.0	2.5					
31.....		4.8		2.9		3.2	2.9					
Means.		5.6	5.4	3.9	3.7	3.4	2.1					

## ROANOKE RIVER SYSTEM—ROANOKE RIVER, CLARKSVILLE, VA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....			2.3	3.9	3.2	4.5	4.8	2.8				
2.....			2.1	3.7	3.2	4.2	4.7	2.8				
3.....			2.0	10.0	3.1	4.1	4.2	2.7				
4.....			2.5	14.0	2.9	4.0	3.8	2.4				
5.....			2.4	15.1	2.7	3.9	3.5	3.1				
6.....			2.3	9.4	2.6	3.6	3.2	5.9				
7.....			2.3	5.6	2.6	3.5	3.1	13.0				
8.....			2.2	5.1	2.9	3.5	4.9	14.0				
9.....			2.3	4.4	3.5	4.8	4.2	15.0				
10.....			2.6	4.0	5.0	3.9	4.4	6.1				
11.....			3.5	3.8	6.1	3.6	4.1	5.0				
12.....			3.1	3.4	4.9	3.4	3.6	5.2				
13.....			4.6	3.3	4.4	3.3	3.6	7.7				
14.....			4.1	4.2	4.0	3.3	5.8	10.0				
15.....			3.7	7.4	3.7	3.4	10.0	12.0				
16.....			3.1	6.7	3.4	4.6	13.2	13.0				
17.....			2.8	5.8	3.2	4.9	12.8	12.9				
18.....			2.7	5.1	3.0	6.2	9.0	9.9				
19.....			2.7	4.1	3.3	5.5	9.8	9.1				
20.....			2.5	4.1	4.9	4.1	9.1	7.2				
21.....			2.8	8.7	5.7	4.0	7.2	5.3				
22.....			2.9	11.5	7.0	4.8	4.4	5.0				
23.....			2.7	8.3	17.0	4.7	4.2	4.9				
24.....			2.7	6.8	18.4	4.9	3.8	6.7				
25.....			2.6	5.5	14.0	4.4	3.2	7.6				
26.....			7.8	5.2	6.9	4.0	2.9	7.8				
27.....			10.2	4.7	6.5	4.4	3.3	9.1				
28.....			10.3	4.2	6.8	5.9	3.6	13.0				
29.....			6.6	3.8	7.6	4.5	3.4	9.0				
30.....			5.3	3.3	6.2	5.2	3.1	8.4				
31.....			4.2		5.1		2.8	7.0				
Means.....			3.7	6.2	5.6	4.3	5.3	7.9				
<b>1902</b>												
1.....			12.2	5.4	4.3	2.8	2.9	2.0	0.9	1.9	2.0	4.7
2.....			14.7	5.0	3.7	2.6	3.0	2.1	0.7	2.2	2.0	5.4
3.....			9.7	4.5	3.8	2.6	2.5	2.3	1.3	2.6	1.9	6.2
4.....			7.2	4.2	4.4	2.4	2.2	2.5	3.0	2.1	1.7	11.5
5.....			6.5	4.1	3.9	2.4	2.1	2.0	2.9	2.7	1.7	7.8
6.....			6.9	4.0	3.7	2.3	2.1	1.9	2.6	7.1	1.6	9.0
7.....			6.4	4.9	3.4	2.0	2.0	1.9	2.3	11.0	2.5	7.2
8.....			5.3	6.8	4.3	2.4	3.2	1.7	1.4	6.5	2.7	5.0
9.....			4.7	6.5	4.6	2.5	3.3	1.6	1.6	3.4	2.3	4.3
10.....			4.0	6.1	4.3	2.3	3.0	1.5	2.5	3.0	2.0	3.6
11.....			3.9	5.7	3.8	2.1	3.3	1.4	1.7	3.0	1.8	3.1
12.....			3.7	5.1	3.3	1.9	3.1	1.4	1.4	5.4	1.7	3.0
13.....			3.6	4.9	3.0	1.9	2.8	1.3	1.2	7.2	1.7	3.0
14.....			3.2	4.7	3.2	1.8	1.9	1.9	1.0	4.3	1.6	3.1
15.....			3.0	4.2	3.7	1.6	1.7	1.9	1.6	3.4	1.6	3.2
16.....			2.9	3.9	3.4	2.5	1.7	2.1	1.2	2.9	1.4	3.0
17.....			4.9	3.8	3.9	5.9	1.5	2.4	1.0	2.4	1.3	3.7
18.....			7.9	4.0	4.3	9.1	1.4	2.2	0.8	2.3	1.5	5.9
19.....			5.8	4.2	4.5	6.0	1.3	2.1	0.7	2.1	2.9	4.4
20.....			7.3	4.0	4.1	4.3	1.3	2.0	0.7	1.9	4.9	3.9
21.....			7.3	4.0	4.1	2.8	1.5	1.6	0.5	1.7	2.8	3.9
22.....			4.2	3.9	3.7	2.6	1.9	1.4	0.9	1.5	2.4	4.7
23.....			4.0	3.8	3.5	2.3	1.6	1.2	0.9	1.4	2.2	5.4
24.....			4.0	3.6	3.3	2.3	1.4	1.1	1.1	1.4	2.0	4.0
25.....			3.8	2.9	3.0	2.5	1.4	1.0	1.0	1.3	2.0	3.6
26.....			3.7	2.7	3.0	2.5	1.7	1.0	1.2	1.3	3.7	3.4
27.....			3.6	2.6	3.4	2.7	1.8	1.4	1.4	1.2	4.5	3.2
28.....			3.4	2.5	3.8	2.8	1.6	1.5	1.7	1.4	4.1	3.0
29.....			4.9	2.5	3.5	2.8	1.2	1.3	1.8	2.9	4.0	2.9
30.....			5.8	3.6	3.2	2.5	1.5	1.1	1.7	2.5	3.7	3.2
31.....			6.4		3.0		1.3	1.0		2.3		3.4
Means.....			5.6	4.3	3.7	2.9	2.0	1.7	1.4	3.1	2.4	4.6

## ROANOKE RIVER SYSTEM—ROANOKE RIVER, CLARKSVILLE, VA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1893												
1.....	3.1	5.2	9.6	11.0	6.5	4.8	5.8	3.5	6.2	3.0	2.7	3.3
2.....	3.0	4.9	10.5	8.2	6.1	5.8	5.6	6.2	6.3	3.0	2.7	3.3
3.....	8.2	4.6	6.8	6.8	5.8	5.0	4.0	5.1	5.8	3.0	2.7	3.3
4.....	12.2	4.8	6.3	6.2	5.6	4.7	3.7	4.5	5.1	2.9	2.8	3.3
5.....	13.0	6.5	5.8	7.2	5.2	4.5	3.6	4.3	4.8	2.9	3.5	3.3
6.....	8.4	10.0	5.5	6.5	4.8	4.4	3.4	4.0	4.0	2.8	4.4	3.4
7.....	7.8	6.6	5.3	6.1	4.7	5.0	4.6	3.7	3.5	2.8	4.0	3.4
8.....	5.8	6.4	5.4	6.7	4.6	6.4	4.4	3.5	3.2	2.8	3.5	3.4
9.....	5.3	7.5	5.8	10.2	4.5	5.6	4.2	3.3	3.2	5.0	3.4	3.4
10.....	4.8	6.5	5.5	10.0	4.5	5.3	3.9	3.4	4.5	5.5	3.4	3.6
11.....	4.4	6.1	5.1	7.5	4.5	5.8	3.8	3.3	4.2	5.3	3.3	3.7
12.....	5.5	8.1	6.5	6.2	4.4	7.8	3.6	3.4	4.0	4.0	3.3	3.7
13.....	5.3	7.2	6.7	5.4	4.3	6.1	3.4	3.5	3.7	3.5	3.2	4.5
14.....	4.8	6.1	6.5	6.9	4.3	5.2	8.0	3.6	3.5	3.2	3.2	4.1
15.....	4.3	5.7	6.0	8.5	4.2	4.6	7.0	3.8	3.4	3.1	3.1	3.5
16.....	4.4	5.3	5.8	7.5	4.2	4.2	6.2	4.0	3.5	3.0	3.1	3.4
17.....	4.3	12.4	5.5	6.3	4.1	4.1	5.0	3.7	3.6	2.9	3.1	3.3
18.....	4.2	13.5	5.2	5.8	4.1	4.0	4.3	3.5	6.0	3.1	4.5	3.3
19.....	4.3	14.6	5.1	5.6	4.0	4.0	4.0	4.3	5.2	3.0	3.4	3.3
20.....	4.2	8.0	4.9	5.5	4.0	3.9	3.8	4.1	4.6	3.0	3.3	3.5
21.....	4.7	6.0	4.7	6.5	4.0	4.5	3.5	4.0	4.1	3.0	3.3	3.7
22.....	6.7	5.8	10.5	5.8	3.9	3.5	3.5	3.8	3.7	2.9	3.3	3.6
23.....	6.5	5.5	13.5	5.9	3.9	3.5	3.5	3.7	3.5	2.8	3.2	3.5
24.....	5.5	5.2	15.0	6.8	4.0	3.7	3.4	3.5	3.3	2.8	3.1	3.4
25.....	5.0	4.9	16.8	6.2	4.0	3.6	3.4	3.4	3.2	2.8	3.1	3.4
26.....	4.8	4.7	13.2	6.1	4.2	3.5	3.3	3.4	3.1	2.9	3.2	3.6
27.....	4.5	4.5	8.5	7.8	4.5	4.2	3.2	3.3	3.1	2.9	3.3	3.6
28.....	4.9	5.5	6.3	7.7	4.6	8.0	3.3	3.3	3.2	2.9	3.4	3.4
29.....	8.2		5.8	7.5	5.0	7.5	3.5	3.2	3.1	2.8	3.4	3.5
30.....	6.9		7.2	6.3	5.5	6.0	3.3	3.3	3.1	2.8	3.3	3.5
31.....	5.8		10.0		5.0		3.4	6.1		2.7		3.5
Means.	5.9	6.9	7.6	7.0	4.6	5.0	4.2	3.9	4.1	3.2	3.3	3.5
1904												
1.....	3.4	4.2	3.5	3.9	3.4	4.3	7.5	3.5	2.2	1.9	2.7	
2.....	3.5	4.4	3.4	3.9	3.4	4.0	7.2	3.0	2.3	1.9	2.7	
3.....	3.6	4.5	3.4	3.8	3.8	6.8	4.7	2.8		1.8	2.6	
4.....	3.7	4.5	3.6	3.8	3.7	5.2	3.9	3.1		1.7	3.0	
5.....	3.7	4.6	3.6	3.7	3.7	4.8	3.5	3.0		1.7	2.9	
6.....	3.8	4.7	3.5	3.6	3.6	4.3	4.3	3.4		1.8	2.8	
7.....	3.7	4.8	3.9	3.7	3.4	4.0	3.8	3.7		1.7	2.7	
8.....	3.7	7.0	8.2	3.7	4.2	4.1	3.6	5.2		1.7	2.6	
9.....	3.9	5.6	7.8	3.6	4.4	5.3	3.5	5.0		1.6	2.6	
10.....	3.8	4.5	5.4	3.6	5.2	5.0	3.5	5.8	2.7	1.6	2.5	
11.....	3.6	4.0	4.5	3.5	4.6	4.7	3.9	8.5	2.6	1.4	2.4	
12.....	3.8	4.1	4.3	3.5	4.1	4.4	5.2	8.7	2.5	1.8	2.4	
13.....	4.3	4.1	4.2	3.4	3.6	4.2	6.0	5.3	2.4	1.9	3.5	
14.....	4.4	4.2	4.2	3.3	3.4	4.0	5.2	4.4	2.6	2.0	4.0	
15.....	4.3	4.0	4.1	3.2	5.1	3.9	4.3	4.0	7.2	1.9	3.5	
16.....	4.2	4.0	4.0	3.1	4.7	3.8	3.0	4.3	5.8	1.9	3.4	
17.....	4.1	3.9	4.0	3.1	4.2	3.4	2.8	4.5	5.2	1.8	3.3	
18.....	4.0	3.8	3.9	3.0	8.3	3.5	2.7	4.0	3.9	1.7	3.2	
19.....	4.0	3.7	3.9	3.0	8.8	3.5	2.6	3.8	3.5	1.7	3.0	
20.....	3.9	5.2	3.8	2.9	8.7	3.5	2.5	3.5	3.0	1.8	2.0	
21.....	3.8	6.5	3.7	2.8	6.2	3.4	2.3	4.1	2.8	1.9	2.9	
22.....	3.7	7.8	3.8	2.7	5.7	3.4	3.2	3.7	2.6	2.0	2.0	
23.....	3.7	8.9	3.9	2.6	5.3	3.2	3.4	3.3	2.5	2.0		
24.....	4.0	7.7	4.1	2.6	4.0	3.1	7.8	3.0	2.4	1.9		
25.....	4.7	5.0	6.2	2.5	3.9	3.1	7.5	2.8	2.4	1.8		
26.....	4.4	4.5	7.1	2.4	3.7	3.0	8.2	2.7	2.3	2.0		
27.....	4.4	4.2	5.3	3.4	3.6	3.0	5.4	2.5	2.2	2.2		
28.....	4.2	3.8	5.7	3.9	3.5	3.9	5.2	2.4	2.1	2.6		
29.....	4.3	3.6	5.5	3.8	3.4	5.5	5.5	2.4	2.0	2.8		
30.....	3.9		5.3	3.5	3.2	6.2	4.3	2.3	2.0	2.8		
31.....	3.8		4.0		4.0		3.9	2.3		2.8		
Means.	3.9	4.9	4.6	3.3	4.5	4.2	4.5	3.9	3.0	1.9	2.8	

## ROANOKE RIVER SYSTEM—ROANOKE RIVER, WELDON, N. C.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	7.1	8.5	11.4	10.7	9.8	8.4	9.5	8.2	8.0	8.2	8.1	9.0
2.....	6.8	8.1	19.2	10.4	9.6	8.5	9.1	8.0	7.6	7.7	8.0	8.4
3.....	7.3	7.7	30.9	9.9	9.5	8.3	8.9	7.8	7.4	7.4	8.0	8.4
4.....	6.9	8.1	33.0	9.6	9.4	8.3	8.5	7.8	7.2	7.5	9.0	8.4
5.....	7.8	8.5	24.4	9.6	9.3	8.1	8.3	7.6	7.1	7.6	9.6	8.7
6.....	8.2	12.0	18.5	9.4	9.2	8.1	8.2	7.5	7.2	7.6	10.3	20.1
7.....	8.2	12.2	14.8	9.3	9.1	8.3	8.1	7.5	7.0	7.6	9.7	23.2
8.....	8.2	10.7	12.5	9.0	9.2	8.2	8.1	7.3	7.0	7.8	8.9	14.4
9.....	8.4	9.6	12.7	9.0	9.1	8.2	8.0	7.4	7.4	8.0	8.6	10.5
10.....	8.3	9.5	15.4	8.9	9.2	8.1	7.9	7.4	7.2	8.4	8.3	9.5
11.....	8.2	9.9	16.6	8.8	9.0	8.2	7.9	7.3	7.1	8.2	8.2	9.1
12.....	8.9	10.8	16.1	9.1	9.0	8.2	8.0	7.2	6.9	8.2	8.1	8.9
13.....	18.1	13.0	13.4	9.5	8.9	8.0	7.9	7.2	6.8	7.9	8.0	8.7
14.....	21.2	27.5	11.5	10.0	8.7	8.2	7.8	7.1	6.7	7.7	7.9	8.6
15.....	17.9	30.8	10.6	9.9	8.6	8.6	7.7	7.0	6.7	7.6	7.9	8.6
16.....	12.6	27.8	10.3	9.4	8.4	10.2	8.2	7.0	6.7	8.0	7.9	8.4
17.....	10.0	20.7	10.6	9.0	8.4	10.4	7.8	7.1	6.9	8.6	7.9	8.3
18.....	9.3	16.4	12.8	8.9	8.4	14.4	7.6	7.0	15.1	8.3	7.8	8.3
19.....	9.1	12.9	12.7	9.2	8.4	16.9	7.6	7.0	10.9	8.0	7.8	8.2
20.....	9.1	10.9	11.8	34.2	9.4	12.2	7.5	7.0	8.8	7.8	7.8	8.2
21.....	25.4	9.8	11.6	35.5	9.4	10.9	7.4	7.1	8.1	7.7	7.8	8.3
22.....	31.1	10.5	13.4	32.5	8.9	9.1	7.4	7.0	7.8	7.6	7.8	8.5
23.....	27.2	18.5	14.5	30.5	8.7	8.7	7.4	7.1	7.6	7.5	7.9	8.6
24.....	18.9	28.3	12.5	28.3	8.6	8.6	8.1	7.2	7.6	7.5	7.9	9.0
25.....	14.3	22.8	11.1	22.3	8.6	8.8	11.0	7.4	7.5	7.5	7.9	9.1
26.....	11.5	19.2	10.8	17.7	13.5	15.6	10.0	7.7	7.8	17.0	8.0	9.3
27.....	11.0	16.3	12.4	14.5	14.1	12.3	9.9	7.4	8.0	13.0	8.0	9.9
28.....	9.4	13.3	12.6	12.3	10.3	11.3	12.0	7.2	7.9	9.6	8.4	9.1
29.....	9.1		12.1	10.9	9.1	10.3	13.9	7.2	7.8	8.8	13.4	8.8
30.....	8.9		11.5	10.3	8.8	9.7	10.8	7.4	7.5	8.4	9.9	8.6
31.....	8.8		11.2		8.6		9.1	7.7		8.2		8.9
<b>Means.</b>	<b>12.2</b>	<b>14.8</b>	<b>14.6</b>	<b>14.1</b>	<b>9.3</b>	<b>9.8</b>	<b>8.7</b>	<b>7.3</b>	<b>7.8</b>	<b>8.4</b>	<b>8.5</b>	<b>9.8</b>
<b>1901</b>												
1.....	9.2	9.0	8.4	12.0	10.0	15.1	9.5	8.8	15.7	11.1	8.8	8.8
2.....	9.4	8.9	8.5	10.4	9.8	12.6	11.0	8.9	12.1	11.3	8.8	8.8
3.....	9.3	8.9	8.4	15.0	9.7	11.2	10.3	8.9	12.0	11.8	8.8	8.8
4.....	9.0	8.8	8.4	34.4	9.6	10.3	10.2	8.6	11.0	11.3	8.8	9.0
5.....	8.7	8.9	8.3	36.0	9.4	9.9	9.5	8.4	10.2	9.9	8.8	10.2
6.....	8.5	9.4	8.3	37.7	9.4	9.7	9.0	8.5	9.9	9.5	8.8	10.4
7.....	8.4	9.6	8.3	29.2	9.3	9.7	8.9	17.0	9.5	9.3	8.8	10.0
8.....	8.3	9.2	8.3	21.3	9.3	9.6	9.1	33.1	9.5	9.2	8.8	9.4
9.....	8.3	9.0	8.3	16.7	9.3	9.7	9.9	36.0	9.7	9.1	8.8	9.2
10.....	8.3	9.1	8.3	13.2	10.6	10.4	10.0	37.7	9.4	9.1	8.8	9.2
11.....	8.3	9.9	8.3	11.0	14.3	9.7	10.0	26.2	9.3	9.0	8.8	9.1
12.....	8.5	9.9	9.1	10.0	16.0	9.4	9.2	16.2	9.2	9.0	8.8	9.1
13.....	19.5	9.4	9.2	9.6	12.9	9.1	8.8	19.9	9.2	9.0	8.8	9.2
14.....	30.7	9.1	10.4	9.5	10.3	8.9	8.9	25.9	9.2	9.8	8.8	9.2
15.....	27.7	9.0	9.7	16.5	9.6	8.9	19.4	33.7	9.2	9.6	8.8	9.9
16.....	18.5	8.9	9.1	18.6	9.2	9.1	31.1	35.5	9.2	9.5	8.8	18.5
17.....	13.7	8.8	8.8	18.4	9.0	11.3	36.0	36.1	9.0	9.4	8.8	29.6
18.....	11.5	8.8	8.6	13.8	8.9	14.6	35.6	34.9	9.7	9.2	8.8	25.3
19.....	10.7	8.7	8.5	11.2	8.9	15.8	24.9	31.2	16.6	9.0	8.7	16.7
20.....	10.0	8.7	8.4	10.4	9.1	13.0	24.3	28.8	18.3	9.0	8.7	18.7
21.....	9.5	8.7	8.4	10.5	10.6	10.8	23.0	23.1	15.1	8.9	8.7	10.0
22.....	9.1	8.6	8.4	25.5	10.3	10.4	13.6	19.0	11.5	8.9	8.7	9.9
23.....	9.1	8.5	8.5	31.3	33.4	11.7	12.8	16.8	9.9	8.9	8.7	9.4
24.....	9.1	8.4	8.8	25.0	41.7	10.7	10.8	14.1	9.3	8.9	9.1	9.3
25.....	9.1	8.4	8.7	19.3	45.7	11.0	9.9	13.4	9.2	8.9	9.6	9.5
26.....	9.0	8.3	9.1	16.0	42.1	10.7	9.5	18.1	9.2	8.9	10.3	10.2
27.....	9.0	8.3	28.3	14.2	32.9	11.0	9.1	17.5	9.2	8.9	10.0	10.8
28.....	9.0	8.3	31.0	13.3	26.3	11.2	9.0	27.5	9.2	8.8	9.3	14.7
29.....	8.8		29.4	12.1	23.6	13.3	9.0	32.2	9.4	8.8	9.0	16.8
30.....	8.8		21.4	11.3	23.1	11.4	9.0	27.0	10.4	8.8	8.9	23.1
31.....	8.9		16.3		18.7		8.8	20.3		8.8		34.5
<b>Means.</b>	<b>11.2</b>	<b>8.9</b>	<b>11.4</b>	<b>17.8</b>	<b>16.5</b>	<b>11.0</b>	<b>13.9</b>	<b>22.4</b>	<b>10.7</b>	<b>9.4</b>	<b>8.9</b>	<b>13.0</b>

## ROANOKE RIVER SYSTEM—ROANOKE RIVER, WELDON, N. C.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	40.4	16.4	38.9	20.9	12.5	9.0	10.0	9.3	8.1	9.4	9.8	10.8
2.....	44.5	19.7	37.4	15.7	12.1	9.0	9.7	9.0	8.2	9.4	9.2	14.7
3.....	36.5	30.1	38.2	13.2	10.6	8.9	9.6	9.5	8.4	9.7	9.0	17.5
4.....	27.0	31.6	33.3	11.9	11.8	8.9	9.3	9.4	8.3	9.7	8.9	22.1
5.....	21.3	28.6	26.3	11.5	12.6	8.8	9.0	9.1	9.9	9.1	8.9	27.5
6.....	17.0	22.4	22.6	11.3	11.3	8.8	8.8	8.8	9.2	8.9	8.9	23.7
7.....	13.7	17.6	22.0	11.3	11.1	8.7	8.6	8.6	9.3	26.9	8.9	26.0
8.....	11.6	14.3	19.6	12.4	10.6	8.8	8.6	8.5	9.0	33.2	9.3	21.5
9.....	10.9	12.7	16.6	20.9	11.4	8.8	9.8	8.8	8.7	24.4	9.3	16.4
10.....	10.6	11.7	15.3	21.4	11.5	8.8	9.5	8.8	8.8	14.8	9.4	13.4
11.....	10.4	10.7	15.0	18.9	10.7	8.8	9.1	8.5	9.9	10.3	9.1	11.6
12.....	10.2	10.2	14.1	14.8	10.1	8.8	10.1	8.8	9.2	10.8	9.0	10.8
13.....	10.1	10.1	13.2	12.7	9.8	8.8	9.8	8.4	8.8	15.2	8.9	10.5
14.....	9.9	10.1	12.4	11.7	9.6	8.6	9.0	8.7	8.8	17.4	8.8	10.7
15.....	9.6	10.0	12.0	11.4	9.6	8.7	8.7	8.7	8.6	13.0	8.8	11.7
16.....	9.3	9.9	11.6	11.1	9.7	8.7	8.6	9.4	8.3	10.4	8.8	11.5
17.....	9.6	9.9	11.6	11.0	9.8	9.6	8.6	9.9	8.3	9.8	8.8	11.3
18.....	9.7	9.8	17.4	11.1	10.8	26.0	8.5	10.6	8.2	9.4	8.8	13.5
19.....	9.7	10.1	23.0	11.0	11.9	27.7	8.4	9.1	8.2	9.2	8.9	18.4
20.....	9.6	10.0	17.4	10.9	11.9	16.4	8.3	8.8	8.1	9.1	11.1	15.9
21.....	9.5	9.8	14.3	10.8	10.6	10.8	8.3	8.5	8.1	9.0	14.5	12.7
22.....	12.0	10.4	12.8	10.5	10.5	10.3	8.2	8.3	8.2	9.0	11.1	12.1
23.....	16.1	13.3	12.1	10.4	10.0	9.4	8.3	8.2	8.2	8.8	10.0	17.6
24.....	16.4	18.2	11.6	10.3	9.6	9.2	8.4	8.1	8.2	8.8	9.6	18.2
25.....	13.5	21.8	11.4	10.2	9.4	9.0	8.4	8.2	8.3	8.7	9.5	15.1
26.....	11.3	33.0	11.1	10.2	9.3	9.0	8.4	8.3	8.3	8.7	9.6	12.4
27.....	10.5	35.8	10.9	10.0	9.8	9.0	8.3	8.2	8.3	8.8	11.6	11.3
28.....	10.4	38.2	10.7	10.0	9.7	9.3	8.2	8.4	8.6	8.8	14.6	10.7
29.....	12.3	.....	10.8	9.9	9.5	9.4	8.1	8.4	9.4	8.8	13.2	10.2
30.....	13.8	.....	13.3	10.1	9.3	9.6	8.2	8.2	9.7	12.4	11.4	10.0
31.....	14.1	.....	24.2	.....	9.2	.....	8.2	8.0	.....	10.9	.....	10.2
Means.	15.2	17.4	18.1	12.6	10.5	10.5	8.8	8.8	8.7	12.0	9.9	14.8
<b>1903</b>												
1.....	10.5	15.1	17.8	31.0	16.1	12.1	14.8	9.2	15.7	9.4	8.9	8.9
2.....	10.2	13.0	28.3	31.0	14.1	11.4	12.5	9.3	15.9	9.2	9.0	8.9
3.....	10.3	11.9	27.5	25.3	12.9	13.3	11.1	13.3	13.8	9.0	8.9	9.1
4.....	29.6	11.4	20.5	21.0	12.4	12.2	11.5	12.8	11.1	8.9	9.0	9.1
5.....	34.4	17.1	16.7	20.7	12.2	11.2	10.7	10.7	9.9	8.9	9.0	9.0
6.....	36.5	28.4	14.6	20.3	12.2	10.8	10.3	10.3	9.5	8.9	9.1	9.0
7.....	28.8	27.4	13.3	18.3	12.1	11.2	11.5	11.2	9.4	8.8	10.4	9.0
8.....	23.4	20.5	13.0	16.0	11.8	19.4	12.0	11.0	9.3	8.9	10.6	9.1
9.....	19.0	19.8	13.9	24.6	11.7	25.4	11.5	10.3	9.1	9.5	9.8	9.1
10.....	15.7	20.9	14.6	29.3	11.6	19.5	10.9	9.6	9.0	10.5	9.4	9.1
11.....	13.1	18.8	16.4	20.0	11.5	14.5	10.1	9.4	12.0	12.4	9.2	9.1
12.....	12.1	18.3	15.8	22.7	11.3	16.7	9.8	9.3	10.7	10.4	9.2	9.1
13.....	14.4	23.5	17.0	18.4	11.3	21.0	9.6	9.2	9.8	9.5	9.1	9.1
14.....	13.2	23.8	17.5	17.9	11.2	16.1	15.9	11.5	9.4	9.1	9.1	9.0
15.....	11.8	19.0	17.3	30.6	11.2	13.0	22.5	10.4	9.3	9.0	9.0	9.0
16.....	10.9	15.7	15.7	28.7	11.1	11.3	19.4	10.1	9.1	9.0	9.0	9.3
17.....	10.7	20.3	14.1	24.5	11.0	10.7	14.0	10.2	9.1	9.0	9.0	9.4
18.....	10.9	36.8	13.1	20.5	10.9	10.5	11.0	11.5	9.8	10.0	9.6	9.1
19.....	10.7	38.3	12.5	17.5	10.9	10.3	10.1	10.6	15.6	9.8	10.9	9.0
20.....	10.5	40.2	12.1	15.4	10.8	10.2	9.9	12.4	16.4	9.6	11.4	8.9
21.....	10.3	32.3	11.9	14.5	10.8	10.4	9.8	12.2	11.4	9.9	10.4	9.9
22.....	10.9	24.5	13.9	17.2	10.8	14.9	9.0	10.7	10.1	9.5	9.7	11.7
23.....	16.3	20.2	36.9	15.8	10.7	11.9	9.8	10.5	9.6	9.3	9.4	11.5
24.....	16.3	17.0	41.7	23.6	10.6	11.0	9.5	9.9	9.4	9.2	9.3	10.8
25.....	13.7	14.8	42.4	19.4	10.7	11.0	9.4	9.4	9.3	9.4	9.2	10.0
26.....	12.2	13.3	42.7	17.2	10.8	11.2	9.3	9.2	9.2	9.2	9.2	9.9
27.....	11.3	12.5	40.0	19.6	11.0	10.5	9.2	9.1	9.1	9.1	9.2	10.8
28.....	11.1	12.5	29.5	23.3	11.3	10.6	9.1	9.0	9.0	9.1	9.2	10.3
29.....	11.7	.....	23.4	22.9	11.4	21.7	9.0	9.0	9.0	9.1	9.1	9.7
30.....	21.1	.....	20.5	19.5	13.1	19.3	9.2	9.1	9.2	8.9	9.0	9.5
31.....	18.5	.....	29.4	.....	14.0	.....	9.4	16.3	.....	8.9	.....	9.2
Means.	15.8	21.0	21.4	21.6	11.7	13.8	11.3	10.5	10.6	9.4	9.4	9.5



## ROANOKE RIVER SYSTEM—ROANOKE RIVER, WELDON, N. C.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	9.4	9.2	11.1	10.4	10.7	9.0	10.7	10.8	8.3	8.8	8.2	8.4
2.....	9.3	9.1	10.8	10.1	10.0	10.4	11.1	9.6	8.4	8.6	8.2	8.6
3.....	9.3	9.5	10.7	10.0	9.7	21.3	11.5	9.4	8.8	8.5	8.2	8.9
4.....	9.3	9.5	10.6	9.9	9.7	20.3	10.3	11.6	9.5	8.3	8.3	9.6
5.....	9.4	9.5	10.7	9.6	9.4	16.3	9.5	11.0	10.5	8.2	8.6	9.8
6.....	8.8	9.5	10.5	9.6	9.3	12.0	9.3	10.4	12.7	8.1	10.0	10.4
7.....	8.6	10.3	10.4	9.5	9.3	10.3	9.0	10.8	10.3	8.1	9.3	16.9
8.....	8.5	14.0	17.6	9.8	9.3	10.4	9.4	11.1	9.4	8.2	8.8	13.8
9.....	8.7	18.2	25.3	9.8	10.4	11.6	9.2	11.5	8.9	8.1	8.6	11.8
10.....	8.7	16.0	23.8	9.9	10.6	10.9	9.0	13.0	8.7	8.2	8.5	10.2
11.....	9.3	13.3	18.1	9.7	11.7	10.2	8.9	21.1	8.7	8.1	8.5	9.6
12.....	9.3	11.2	14.1	9.6	11.3	9.9	8.7	20.3	8.4	8.1	8.5	9.4
13.....	9.5	10.3	12.1	9.8	10.5	9.8	9.4	14.4	8.7	7.9	8.6	9.3
14.....	9.7	9.9	11.2	9.6	9.9	11.8	10.0	11.5	8.7	7.9	13.6	9.2
15.....	9.8	9.7	10.8	9.4	9.7	10.6	9.4	10.3	12.2	8.1	15.0	9.1
16.....	9.6	9.9	10.8	9.4	11.7	9.8	9.0	9.6	31.2	8.0	10.7	8.9
17.....	9.3	10.2	10.7	9.3	10.6	9.3	8.7	9.4	22.5	8.0	10.0	8.8
18.....	9.3	10.0	10.4	9.3	10.2	9.2	8.6	9.2	16.7	8.0	9.4	9.1
19.....	9.0	9.5	10.2	9.3	13.0	9.0	8.6	9.0	12.9	8.0	9.2	9.2
20.....	8.6	10.7	10.1	9.3	15.6	9.0	8.4	9.1	10.3	8.8	8.9	9.3
21.....	9.1	15.5	10.1	9.2	14.1	9.9	8.3	9.2	8.9	9.8	8.9	9.2
22.....	9.1	16.2	10.1	9.1	12.0	10.0	8.3	9.3	8.9	9.0	8.8	9.3
23.....	9.4	26.6	10.2	9.1	10.5	9.4	8.4	10.0	8.7	8.8	8.6	9.3
24.....	10.8	27.0	10.3	9.1	9.9	9.4	9.0	10.1	8.7	8.6	8.8	9.3
25.....	10.8	24.0	13.4	9.1	9.6	9.3	14.5	9.8	8.6	8.4	8.8	9.5
26.....	10.7	18.5	17.8	9.1	9.4	9.2	14.3	9.3	8.6	8.4	8.8	10.3
27.....	10.3	14.7	14.8	9.2	9.3	8.9	12.1	9.1	8.4	8.2	8.8	10.2
28.....	10.0	11.8	13.3	10.5	9.2	8.9	10.1	9.0	8.4	8.3	8.7	10.3
29.....	9.8	11.2	12.4	11.0	9.1	9.7	10.1	8.7	8.2	8.4	8.6	10.3
30.....	9.2		11.5	11.7	9.0	10.3	9.8	8.6	8.4	8.3	8.5	10.3
31.....	8.7		10.8		9.2		9.9	8.6		8.3		10.2
Means.	9.4	13.3	12.7	9.7	10.1	10.9	9.8	10.8	10.7	8.3	9.2	10.0

## SACRAMENTO RIVER SYSTEM—FEATHER RIVER, MARYSVILLE, CAL.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	20.1	15.2	15.7	16.8	17.0	15.5	12.8	11.8	11.5	11.6	12.8	15.4
2.....	23.5	15.0	15.5	17.2	17.4	15.4	12.8	11.8	11.5	11.6	12.5	15.1
3.....	27.7	15.1	15.5	17.8	17.4	15.2	12.8	11.8	11.5	11.8	12.3	14.8
4.....	27.8	15.0	17.5	17.2	17.5	15.1	12.7	11.8	11.5	13.4	12.9	14.7
5.....	25.5	15.0	17.7	16.8	18.8	14.9	12.6	11.7	11.5	13.6	12.7	14.5
6.....	24.5	14.9	17.4	16.6	18.8	15.0	12.6	11.7	11.5	14.3	12.5	14.3
7.....	23.9	14.8	17.3	16.8	18.7	15.0	12.5	11.7	11.5	13.2	12.4	14.2
8.....	24.3	14.5	23.5	17.8	18.5	14.9	12.4	11.7	11.6	12.8	12.6	14.1
9.....	23.0	14.3	26.5	17.2	18.5	14.9	12.3	11.7	11.6	12.5	12.8	13.9
10.....	21.7	14.2	24.2	16.8	18.7	14.8	12.2	11.7	11.6	12.3	12.7	13.9
11.....	20.5	14.2	23.2	16.4	18.8	14.7	12.2	11.7	11.6	12.2	12.5	13.9
12.....	19.7	14.2	22.0	16.7	18.3	14.7	12.2	11.7	11.8	12.2	12.4	13.8
13.....	19.0	14.2	21.4	18.6	17.4	14.5	12.2	11.7	11.9	12.1	12.4	13.8
14.....	18.5	14.2	21.0	18.2	17.2	14.4	12.1	11.7	11.9	12.0	12.4	13.8
15.....	18.9	14.3	20.9	17.5	17.1	14.4	12.1	11.7	11.8	12.0	12.4	16.1
16.....	18.8	14.3	20.5	17.0	17.5	14.3	12.1	11.7	11.8	12.0	12.6	16.0
17.....	18.4	14.2	20.0	16.8	17.8	14.2	12.1	11.7	11.8	11.9	15.4	16.9
18.....	18.0	14.2	19.7	16.8	17.7	14.1	12.0	11.7	11.8	11.9	16.0	16.2
19.....	17.7	14.8	19.2	17.0	17.5	13.9	12.0	11.6	11.8	12.4	16.0	15.8
20.....	17.4	15.0	19.0	17.5	17.5	13.8	12.0	11.6	11.8	18.0	15.2	15.5
21.....	17.0	16.8	18.7	18.0	17.3	13.7	12.0	11.6	11.7	16.0	18.2	20.6
22.....	16.8	17.3	18.5	17.6	17.2	13.6	12.0	11.6	11.7	14.5	23.0	23.0
23.....	16.4	16.8	18.3	17.5	17.1	13.5	12.0	11.6	11.7	13.7	21.8	21.2
24.....	16.1	16.3	18.0	17.0	16.8	13.4	12.0	11.6	11.6	13.1	19.8	19.5
25.....	15.8	15.9	17.8	16.8	16.5	13.3	12.0	11.6	11.6	12.8	18.2	18.1
26.....	15.7	15.8	17.8	16.7	16.2	13.2	11.9	11.6	11.6	12.5	17.8	17.0
27.....	15.5	16.2	17.8	16.5	16.1	13.2	11.9	11.6	11.6	12.5	17.2	16.4
28.....	15.3	16.9	17.5	16.2	16.0	13.0	11.9	11.6	11.6	12.4	16.6	15.8
29.....	15.2		17.0	16.2	15.7	12.9	11.9	11.6	11.6	12.6	16.0	15.3
30.....	15.2		16.8	16.6	15.5	12.9	11.8	11.5	11.6	12.5	15.5	15.0
31.....	15.2		16.8		15.5		11.8	11.5		12.4		14.5
Means.	19.5	15.1	19.1	17.1	17.4	14.2	12.2	11.7	11.7	12.9	14.3	15.9

## DESCRIPTION OF RIVER GAGES, ETC.

## SACRAMENTO RIVER SYSTEM—FEATHER RIVER, MARYSVILLE, CAL.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	14.3	15.4	24.0	16.8	21.3	17.9	13.5	11.8	11.5	12.6	12.6	16.3
2.....	14.2	15.2	23.9	16.7	20.5	17.8	13.5	11.8	11.4	12.3	12.4	15.0
3.....	14.1	15.2	23.5	17.5	20.1	17.8	13.4	11.8	11.4	12.1	12.3	18.3
4.....	16.5	15.2	22.8	17.2	19.9	17.6	13.3	11.8	11.4	12.0	12.2	21.2
5.....	23.3	19.3	22.1	16.9	19.8	17.3	13.2	11.8	11.4	12.0	12.1	22.0
6.....	24.5	20.5	21.8	16.8	20.0	16.9	13.1	11.8	11.4	11.9	12.2	22.5
7.....	23.0	17.8	21.5	16.8	20.2	16.7	13.0	11.8	11.4	11.9	12.0	21.2
8.....	20.7	17.2	21.2	16.5	20.3	16.6	12.9	11.8	11.4	11.8	12.0	19.0
9.....	19.0	17.2	20.8	16.2	20.2	16.3	12.8	11.8	11.4	11.8	11.9	17.3
10.....	17.7	16.2	20.2	16.1	20.3	16.0	12.8	11.8	11.3	11.8	12.2	16.3
11.....	17.0	15.6	21.0	16.2	20.8	15.8	12.8	11.8	11.3	11.8	12.5	15.8
12.....	18.0	15.3	20.3	16.3	21.1	15.5	12.8	11.7	11.3	11.8	12.3	15.0
13.....	18.7	15.2	19.5	16.8	21.0	15.2	12.7	11.7	11.3	11.7	12.2	14.5
14.....	18.2	15.4	19.0	17.2	21.0	15.0	12.6	11.7	11.3	11.7	12.0	14.2
15.....	17.8	15.7	18.8	17.8	20.9	14.9	12.5	11.6	11.3	11.7	12.2	14.0
16.....	17.5	16.0	18.5	18.1	20.6	14.9	12.5	11.6	11.3	11.7	12.4	13.9
17.....	17.2	19.4	18.3	18.2	20.5	15.0	12.4	11.6	11.2	11.7	12.8	13.8
18.....	16.9	21.7	18.2	18.0	20.6	14.8	12.4	11.6	11.2	11.7	12.9	13.8
19.....	16.7	23.5	18.0	18.2	20.0	14.8	12.4	11.6	11.2	11.7	12.5	13.7
20.....	16.3	28.8	17.8	18.5	19.2	14.8	12.3	11.5	11.2	11.8	12.8	13.6
21.....	17.0	30.2	17.8	18.7	18.7	14.7	12.3	11.5	11.2	11.8	13.3	13.5
22.....	19.9	28.0	17.8	18.4	18.0	14.5	12.2	11.5	11.2	11.8	13.1	13.4
23.....	19.7	26.6	18.2	18.7	17.6	14.3	12.2	11.5	11.2	11.8	12.9	13.3
24.....	18.6	27.4	18.2	18.4	17.3	14.2	12.2	11.5	12.8	11.8	13.2	13.2
25.....	17.9	26.7	17.9	18.3	17.3	14.2	12.2	11.5	12.4	11.8	13.7	13.2
26.....	17.2	25.5	18.2	18.5	17.4	13.9	12.1	11.5	12.2	11.8	15.2	13.1
27.....	16.6	24.4	18.3	18.3	17.4	13.8	12.1	11.5	12.1	12.8	15.8	13.0
28.....	16.3	23.9	18.2	18.2	17.5	13.6	12.0	11.5	12.0	14.0	14.0	13.0
29.....	16.0	.....	17.8	20.5	17.8	13.4	11.9	11.5	11.9	14.0	15.5	13.0
30.....	15.8	.....	17.3	22.3	17.9	13.5	11.9	11.5	11.8	13.2	18.1	13.0
31.....	15.6	.....	17.0	.....	18.0	.....	11.8	11.5	.....	12.8	.....	13.0
Means.	17.8	20.3	19.6	17.8	19.5	15.4	12.6	11.6	11.5	12.1	13.0	15.4
<b>1902</b>												
1.....	12.9	12.7	24.5	17.2	19.5	18.3	13.5	11.7	11.4	11.6	12.2	15.3
2.....	13.1	12.8	25.0	17.8	19.1	18.2	13.2	11.6	11.3	11.5	11.8	15.5
3.....	14.0	12.8	24.3	17.7	18.7	18.0	13.3	11.6	11.3	11.4	11.7	15.8
4.....	13.7	12.9	22.0	17.6	18.4	17.8	13.2	11.6	11.3	11.3	11.7	15.9
5.....	13.2	12.9	20.2	17.6	18.3	17.7	13.2	11.5	11.2	11.3	11.7	16.2
6.....	13.1	14.2	20.0	18.5	18.6	17.5	13.2	11.5	11.2	11.3	11.7	16.8
7.....	13.0	17.0	19.8	22.0	19.5	17.3	13.2	11.4	11.2	11.3	12.5	17.2
8.....	13.0	21.5	19.5	25.2	20.8	17.5	13.1	11.4	11.2	11.5	13.3	18.2
9.....	13.0	23.5	21.0	24.5	21.2	16.0	12.8	11.4	11.2	11.5	14.8	18.8
10.....	12.9	23.7	20.5	22.8	21.3	18.3	12.8	11.4	11.2	11.4	16.9	19.5
11.....	12.9	21.3	19.5	21.5	21.0	18.5	12.8	11.5	11.2	11.4	18.0	20.5
12.....	12.9	22.5	18.9	21.0	21.0	18.3	12.7	11.7	11.2	11.3	15.7	20.3
13.....	12.8	21.8	18.4	20.4	21.2	18.2	12.7	11.8	11.2	11.3	14.5	19.8
14.....	12.8	20.2	18.2	20.2	21.8	18.0	12.5	11.8	11.1	11.3	14.0	18.5
15.....	12.8	21.0	17.8	20.5	21.5	17.8	12.5	11.8	11.1	11.2	13.8	17.8
16.....	12.8	24.8	17.5	20.8	20.6	17.5	12.5	11.8	11.2	11.2	13.8	17.0
17.....	12.8	24.2	17.2	21.2	20.2	17.2	12.3	11.7	11.2	11.2	15.5	16.4
18.....	12.8	24.7	17.3	21.6	19.9	17.0	12.2	11.7	11.3	11.2	14.5	15.7
19.....	12.8	23.0	17.4	22.5	19.6	16.8	12.2	11.8	11.4	11.2	18.0	15.2
20.....	12.8	21.5	17.3	23.5	19.0	16.5	12.2	11.8	11.4	11.2	17.0	14.5
21.....	12.8	21.8	17.2	22.8	18.5	16.2	12.2	11.7	11.4	11.3	15.0	14.2
22.....	12.8	22.5	17.2	21.8	18.0	16.0	12.2	11.7	11.4	11.5	14.0	14.0
23.....	12.8	22.8	17.1	20.5	17.8	15.8	12.1	11.7	11.3	11.9	13.3	13.8
24.....	12.8	23.7	17.0	20.0	18.1	15.5	12.1	11.6	11.4	13.3	13.2	13.7
25.....	13.0	26.0	16.8	19.5	18.8	15.2	12.1	11.6	11.4	14.0	13.0	15.0
26.....	12.9	27.5	16.7	18.9	19.5	14.5	12.0	11.5	11.4	13.5	12.9	16.8
27.....	12.8	26.4	16.3	18.6	20.0	14.1	11.7	11.5	11.5	12.5	12.8	19.0
28.....	12.8	26.5	16.3	18.4	20.4	13.8	11.7	11.4	11.5	12.5	12.5	20.0
29.....	12.8	.....	16.4	18.2	20.2	13.6	11.5	11.4	11.6	12.2	12.8	22.0
30.....	12.8	.....	16.5	19.0	19.8	13.5	11.5	11.4	11.7	12.3	12.8	19.0
31.....	12.7	.....	16.8	.....	19.3	.....	11.5	11.3	.....	12.3	.....	19.0
Means.	12.9	20.9	18.7	20.4	19.7	16.7	12.5	11.6	11.3	11.7	13.8	17.1

## SACRAMENTO RIVER SYSTEM—FEATHER RIVER, MARYSVILLE, CAL.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	16.0	20.0	16.0		19.7		14.0	12.5	12.2	12.0	12.2	
2.....	15.8	18.0	16.0		20.0		13.7	12.4	12.2	12.3	12.2	
3.....	15.7	17.0	16.3		20.2		13.7	12.7	12.2	12.5	12.2	
4.....	15.3	17.2	16.7		20.3		13.7	12.7	12.2	12.5	12.2	
5.....	15.0	16.7	16.8		20.5		13.5	12.7	12.0	12.5	12.7	
6.....	14.0	16.7	16.5		20.3		13.5	12.7	12.0	12.5	13.0	
7.....	14.0	16.0	16.2		20.3		13.3	12.5	12.0	12.3	13.0	
8.....	14.2	17.2	16.2		20.3		13.2	12.5	12.0	12.3	12.7	
9.....	14.0	17.2	18.2		20.2		13.0	12.5	12.0	12.3	12.7	
10.....	14.2	16.7	17.2		20.2		13.0	12.3	12.0	12.7	14.0	
11.....	13.8	16.5	16.7		20.2		13.0	12.3	12.0	13.3	19.0	
12.....	13.8	16.7	16.5		20.1		13.0	12.3	12.0	13.5		
13.....	13.8	16.2	17.0	20.1	20.0		13.0	12.3	12.0	12.7		
14.....	13.7	16.0	20.0	19.8	19.7		13.0	12.3	12.0	12.7		
15.....	13.7	15.7	20.5	19.4	19.4		13.0	12.2	12.0	12.5	18.5	
16.....	13.6	15.7	19.5	19.0	19.0		12.7	12.2	12.0	12.3	17.5	
17.....	13.5	15.8	19.3	18.8	18.7		13.0	12.2	12.0	12.3	16.0	
18.....	13.4	15.2	18.7	18.3	17.3		13.0	12.2	12.0	12.3		
19.....	13.3	15.1	18.0	18.2	17.0		13.0	12.2	12.0	12.3		
20.....	13.3	15.1	17.2	18.0	17.2		13.0	12.2	12.0	12.3		
21.....	13.2	15.3	17.0	18.0	17.0		13.0	12.2	12.0	12.3		
22.....	14.7	15.3	17.0	18.3	17.0		13.0	12.2	12.0	12.3		
23.....	17.0	16.0	17.0	18.7	16.7		13.0	12.2	12.0	12.2		
24.....	19.3	16.0	17.2	19.3	16.5		13.0	12.2	12.0	12.2	19.5	
25.....	20.7	16.0	18.0	19.8	16.3		13.0	12.2	12.0	12.2	18.0	
26.....	22.8	16.0	18.7	20.1	16.3		12.8	12.2	12.0	12.2	17.2	
27.....	22.4	16.0	19.5	20.3	16.5		12.7	12.2	12.0	12.2	17.0	
28.....	23.3	16.0	20.2	19.8	16.7		12.7	12.2	12.0	12.2	17.0	
29.....	23.2			19.5	17.3		12.5	12.2	12.0	12.2	16.0	
30.....	21.2			19.5	17.7		12.5	12.2	12.0	12.2	16.0	
31.....	20.1				18.0		12.5	12.2		12.2		
Means.	16.2	16.3	17.6	11.5	18.6		13.1	12.3	12.0	12.4	15.2	
<b>1904</b>												
1.....	16.0	14.5			18.8	20.5	15.7	13.0	12.5	13.3	14.0	15.8
2.....	15.2	15.5			19.0	20.2	15.5	13.0	12.5	13.2	15.0	15.5
3.....	15.2	14.5			18.5	20.2	15.2	12.8	12.5	13.2	14.8	15.0
4.....	14.7	15.4			18.8	20.3	15.2	12.8	12.5	13.2	14.3	14.3
5.....	15.0	15.5			19.5	20.3	15.0	12.8	12.5	13.0	14.2	14.2
6.....	14.8	15.3			20.0	20.0	14.8	12.7	12.3	13.0	14.2	14.0
7.....	14.5	15.2			20.3	19.8	14.8	12.7	12.3	13.0	14.0	13.8
8.....	14.5	15.0			20.7	19.2	14.7	12.7	12.3	13.3	13.8	13.8
9.....	14.3	15.0			21.0	19.0	14.7	12.7	12.3	14.3	13.7	13.8
10.....	15.4	19.8			21.3	18.8	14.7	12.7	12.3	17.2	13.7	14.5
11.....	15.3				21.8	18.7	14.5	12.7	12.3	18.8	13.5	14.6
12.....	15.0				22.2	18.5	14.5	12.7	12.3	22.2	13.5	14.2
13.....	18.7				22.5	18.3	14.3	12.7	12.3	19.2	13.5	14.0
14.....	14.6				22.8	18.2	14.2	12.7	12.2	16.8	13.3	14.5
15.....	14.5				23.2	18.2	14.2	12.7	12.2	16.2	13.7	14.2
16.....	14.7				23.0	18.0	14.2	12.7	12.2	15.7	14.8	14.2
17.....	15.7				22.8	17.8	14.2	12.7	12.3	14.7	14.5	14.0
18.....	15.5				22.5	17.7	14.0	12.5	12.2	14.3	14.2	14.0
19.....	15.5				22.3	17.5	13.8	12.5	12.2	14.0	14.0	14.0
20.....	15.2				22.0	17.3	13.8	12.5	12.2	14.0	14.0	13.8
21.....	15.0				21.7	17.2	13.7	12.5	12.3	14.0	13.8	13.7
22.....	15.0				22.2	17.0	13.5	12.5	12.5	13.8	13.8	13.7
23.....	15.0				22.8	16.8	13.5	12.5	12.7	13.8	13.7	13.7
24.....	15.0				23.3	16.8	13.3	12.5	15.5	13.8	13.7	14.2
25.....	15.0				23.7	16.5	13.3	12.5	16.2	13.7	13.7	15.9
26.....	14.5				23.3	16.2	13.3	12.5	16.0	13.7	13.7	15.2
27.....	14.5				22.8	16.2	13.2	12.5	14.0	13.7	13.8	14.8
28.....	14.5				22.3	16.0	13.0	12.5	13.8	13.7	15.2	14.5
29.....	14.5				21.8	15.8	13.0	12.5	13.7	13.7	14.8	14.4
30.....	14.5				21.3	15.7	13.0	12.5	13.5	13.7	15.0	19.0
31.....	14.5				21.8		13.0	12.5		13.5		26.5
Means.	15.0				21.6	18.1	14.1	12.6	12.9	14.6	14.1	14.9

## SACRAMENTO RIVER SYSTEM—AMERICAN RIVER, SACRAMENTO, CAL.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	6.5	5.8	3.8	6.5	7.0	4.0	2.7	1.2	0.8	1.3	2.7	3.8
2.....	7.0	5.8	3.8	6.5	7.5	3.8	2.7	1.2	0.8	1.3	2.7	3.8
3.....	14.0	5.7	3.8	6.5	8.0	4.0	2.6	1.2	1.0	1.2	2.6	3.8
4.....	13.0	5.5	4.0	6.5	8.6	4.2	2.5	1.2	1.5	1.0	2.6	3.8
5.....	13.0	5.0	5.8	6.5	8.6	4.6	2.4	1.2	1.4	0.9	2.6	3.8
6.....	12.0	4.8	7.0	6.4	8.6	5.2	2.3	1.2	1.2	0.8	2.5	3.8
7.....	12.0	4.7	9.2	6.4	8.5	5.7	2.3	1.2	1.0	2.8	2.5	3.7
8.....	11.9	4.7	11.0	6.3	8.6	6.2	2.2	1.2	1.0	2.5	2.5	3.7
9.....	11.8	4.6	10.5	6.4	8.4	6.2	2.2	1.2	0.9	2.3	2.5	3.4
10.....	11.8	4.5	10.0	6.2	8.5	6.2	2.2	1.2	0.8	2.2	2.4	3.0
11.....	11.2	4.2	9.7	6.2	8.5	5.5	2.2	1.2	0.8	2.2	2.3	2.8
12.....	11.0	4.0	9.5	6.2	8.3	4.5	2.1	1.2	1.2	2.2	3.0	2.8
13.....	11.0	3.8	9.3	6.3	8.2	4.5	2.0	1.2	1.5	2.2	2.8	2.7
14.....	10.7	3.7	9.2	6.3	8.1	4.4	1.8	1.2	1.5	2.1	2.8	2.7
15.....	10.3	3.7	9.0	6.3	8.0	4.4	1.5	1.2	1.5	2.0	2.8	2.6
16.....	10.0	3.5	8.8	6.2	8.0	4.3	1.2	1.2	2.0	2.0	3.5	2.5
17.....	9.5	3.3	8.6	6.0	8.8	4.2	1.2	1.2	1.8	1.8	4.2	2.5
18.....	9.5	3.2	8.3	5.7	7.3	4.2	1.2	1.2	1.7	1.5	4.8	3.3
19.....	9.2	3.1	7.9	5.4	6.1	4.2	1.5	1.2	1.5	1.2	5.2	3.2
20.....	9.0	3.0	7.8	5.2	5.2	4.1	1.2	1.2	1.3	8.0	5.3	3.0
21.....	9.0	4.7	7.8	5.0	5.2	4.0	1.2	1.2	1.3	6.2	6.0	2.8
22.....	8.9	6.2	7.7	4.8	5.2	3.9	1.2	1.2	1.3	4.1	10.4	2.7
23.....	8.8	5.7	7.5	4.6	5.0	3.8	1.2	1.0	1.3	3.8	8.0	9.0
24.....	8.8	5.2	7.5	4.4	4.9	3.6	1.2	1.0	1.3	3.2	6.1	8.8
25.....	8.7	4.7	7.4	4.3	4.8	3.5	1.2	1.0	1.3	3.0	5.8	6.0
26.....	8.5	4.5	7.2	4.2	4.8	3.3	1.2	1.0	1.0	2.9	5.0	5.3
27.....	8.4	3.8	7.2	4.0	4.7	3.2	1.2	0.8	1.0	2.9	4.8	4.5
28.....	7.5	3.8	7.0	3.9	4.5	3.0	1.2	0.8	1.0	2.8	4.5	4.2
29.....	6.2	.....	6.8	3.8	4.3	2.8	1.2	0.8	1.5	2.8	4.2	4.0
30.....	6.0	.....	6.8	3.7	4.2	2.8	1.2	0.8	1.5	2.7	3.8	3.8
31.....	5.8	.....	6.5	.....	4.0	.....	1.2	0.8	.....	2.7	.....	3.8
<b>Means.</b>	<b>9.7</b>	<b>4.5</b>	<b>7.6</b>	<b>5.6</b>	<b>6.8</b>	<b>4.3</b>	<b>1.7</b>	<b>1.1</b>	<b>1.3</b>	<b>2.5</b>	<b>4.0</b>	<b>3.9</b>
<b>1901</b>												
1.....	3.8	5.5	9.6	6.1	9.0	9.0	3.8	1.8	0.6	2.5	2.2	4.6
2.....	3.7	5.5	9.5	6.0	8.5	9.0	3.8	1.7	0.3	2.0	2.5	3.7
3.....	3.7	5.5	9.3	6.2	8.5	9.0	3.8	1.7	0.4	2.3	2.2	10.8
4.....	3.5	5.3	9.2	6.7	8.4	8.8	3.6	2.0	0.5	2.7	2.0	10.5
5.....	3.5	6.2	9.2	7.3	8.2	8.8	3.6	2.2	0.8	2.5	2.8	9.0
6.....	12.2	6.2	9.0	8.5	8.2	8.2	3.5	2.2	1.0	2.0	2.7	8.3
7.....	10.0	6.7	8.9	9.0	8.2	8.0	3.4	2.5	1.0	2.2	2.5	8.0
8.....	9.5	7.0	8.8	8.8	8.2	7.8	3.4	2.5	0.7	2.5	2.2	7.2
9.....	7.3	7.6	8.8	8.8	8.2	7.7	3.2	2.8	0.3	2.8	2.0	6.2
10.....	7.2	8.0	8.6	8.5	8.1	7.5	3.0	2.5	1.2	1.4	1.8	5.5
11.....	6.8	8.3	8.4	8.3	8.0	7.3	3.0	2.2	1.0	1.2	2.0	5.2
12.....	6.8	7.7	8.2	8.3	7.9	7.2	3.0	2.0	1.0	1.0	2.2	4.8
13.....	6.7	7.7	8.0	8.4	7.8	7.0	2.9	1.6	1.2	0.8	2.0	4.5
14.....	6.6	7.9	7.9	8.2	7.8	7.0	2.8	1.5	1.0	0.7	2.3	4.1
15.....	6.6	8.2	7.9	8.0	7.8	6.8	2.8	1.4	0.6	2.1	2.5	3.7
16.....	6.6	8.5	7.8	7.7	7.7	6.6	2.7	1.4	0.2	1.2	2.3	3.3
17.....	6.2	9.2	7.8	7.5	7.7	6.5	2.5	1.2	0.8	0.9	2.2	2.8
18.....	6.2	10.9	7.6	7.7	7.5	6.0	2.5	1.0	1.2	1.3	2.0	2.7
19.....	6.2	12.2	7.4	7.4	7.5	5.7	2.3	0.5	1.6	2.1	2.0	2.5
20.....	6.2	15.2	7.3	7.1	7.5	5.2	2.2	1.1	0.3	0.8	2.2	2.5
21.....	5.9	14.0	7.2	6.8	10.1	5.0	2.1	1.2	1.2	1.5	2.2	2.5
22.....	5.8	13.4	7.0	6.7	9.8	4.7	2.0	1.2	1.0	1.8	2.0	2.5
23.....	5.8	12.2	6.8	6.3	9.7	4.4	1.9	1.1	0.8	1.2	2.0	2.5
24.....	5.8	17.1	6.6	6.1	9.6	4.2	1.8	1.1	2.0	1.5	2.2	2.5
25.....	5.7	14.7	6.3	5.7	9.4	4.1	1.8	1.2	2.2	1.8	2.5	2.4
26.....	5.7	11.8	6.2	5.5	9.2	4.0	1.8	1.4	2.0	2.1	2.8	2.4
27.....	5.7	11.4	6.2	10.2	8.9	3.9	1.6	1.5	2.2	4.2	3.0	2.4
28.....	5.7	10.2	6.2	10.1	8.5	3.9	1.6	0.8	2.3	2.5	3.4	2.3
29.....	5.7	.....	6.2	9.7	8.2	3.8	1.8	0.9	2.5	2.2	3.8	2.3
30.....	5.5	.....	6.1	9.8	7.8	3.8	2.0	1.0	2.5	3.1	6.8	2.3
31.....	5.5	.....	6.1	.....	9.0	.....	1.8	1.0	.....	2.8	.....	2.3
<b>Means.</b>	<b>6.2</b>	<b>9.4</b>	<b>7.7</b>	<b>7.7</b>	<b>8.4</b>	<b>6.4</b>	<b>2.6</b>	<b>1.6</b>	<b>1.1</b>	<b>1.9</b>	<b>2.3</b>	<b>4.4</b>

## SACRAMENTO RIVER SYSTEM—AMERICAN RIVER, SACRAMENTO, CAL.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	2.3	2.2	12.0	6.0	6.5	8.5	4.0	2.8	2.0	1.7	3.2	2.3
2.....	2.3	2.0	11.8	5.9	7.8	8.3	4.0	2.8	2.0	1.7	3.2	2.2
3.....	2.2	2.0	11.6	5.7	7.5	7.9	3.9	2.7	2.0	1.5	3.2	3.0
4.....	2.8	2.0	10.4	5.5	7.2	7.7	3.9	2.6	2.0	1.6	3.2	4.4
5.....	3.0	2.2	9.8	6.0	7.0	7.5	3.8	2.5	2.0	1.7	2.5	5.9
6.....	2.8	2.3	9.3	7.2	6.9	7.3	3.8	2.4	2.0	1.8	2.2	4.3
7.....	2.4	7.2	8.8	9.2	6.8	7.2	3.8	2.3	1.9	1.8	2.8	4.2
8.....	2.3	6.8	8.8	10.8	10.2	7.2	3.8	2.3	1.9	1.9	1.3	3.8
9.....	2.2	6.2	8.5	9.7	9.7	8.0	3.8	2.2	1.9	2.0	2.0	3.8
10.....	2.2	5.8	8.2	9.3	9.6	8.9	3.8	2.2	1.9	2.2	2.5	3.8
11.....	2.2	5.7	8.0	9.0	9.3	9.1	3.7	2.2	1.9	2.1	3.0	3.7
12.....	2.2	5.5	7.9	8.8	8.8	8.6	3.6	2.2	1.8	2.0	3.3	3.7
13.....	2.2	6.0	7.8	8.7	8.7	8.3	3.5	2.2	1.8	2.0	3.8	3.6
14.....	2.2	6.6	7.7	8.5	8.5	8.2	3.4	2.2	1.8	1.8	4.0	3.5
15.....	2.2	7.2	7.5	8.2	8.3	7.0	3.3	2.2	1.8	1.7	3.4	3.5
16.....	2.1	7.8	7.2	10.3	8.2	6.0	3.4	2.2	1.8	2.0	3.2	3.3
17.....	2.1	8.2	7.2	10.0	10.2	6.0	3.2	2.2	1.8	2.2	3.2	3.2
18.....	2.1	9.0	7.1	9.7	10.0	5.9	3.0	2.2	1.8	2.2	3.2	2.9
19.....	2.1	10.2	7.0	11.1	9.7	5.9	3.0	2.2	1.8	2.2	3.1	2.9
20.....	2.0	9.6	7.0	10.5	9.7	5.7	3.0	2.2	1.7	2.4	3.0	2.8
21.....	2.0	9.4	7.0	9.9	9.3	5.5	3.0	2.2	1.7	2.5	3.0	2.8
22.....	2.0	10.0	7.0	9.2	9.0	5.5	2.9	2.1	1.7	2.7	3.1	2.7
23.....	2.0	10.5	7.0	8.8	8.5	5.3	2.9	2.1	1.7	2.8	3.2	2.6
24.....	2.2	10.5	7.0	8.2	8.4	5.2	2.9	2.1	1.7	2.9	3.0	2.5
25.....	2.2	11.2	7.0	7.5	10.3	5.0	2.9	2.1	1.7	2.9	2.9	2.5
26.....	2.4	11.8	7.0	7.0	10.0	4.9	2.9	2.0	1.7	2.9	2.8	6.2
27.....	2.3	12.3	6.8	6.8	9.8	4.8	2.8	2.0	1.8	3.0	2.7	5.7
28.....	2.2	13.2	6.8	6.8	9.5	4.8	2.8	2.0	1.8	3.0	2.5	5.2
29.....	2.2		6.5	6.8	9.0	4.6	2.8	2.0	1.8	3.0	2.5	5.0
30.....	2.2		6.2	6.7	8.8	4.4	2.8	2.0	1.8	3.0	2.4	4.5
31.....	2.2		6.0		8.8		2.8	2.0		3.0		3.8
Means.	2.3	7.3	8.0	8.3	8.8	6.6	3.3	2.2	1.8	2.3	2.9	3.7
<b>1903</b>												
1.....	4.0	9.0	5.2	15.8	9.8	9.5	4.4	1.9	0.9	1.2	0.8	4.8
2.....	4.0	8.6	5.2	14.2	9.8	9.3	4.3	1.5	0.9	1.1	0.8	4.7
3.....	4.0	7.5	5.0	13.1	9.8	9.2	4.2	1.5	0.9	1.1	0.8	4.6
4.....	4.2	7.4	6.2	12.7	9.9	9.0	4.0	1.8	1.0	1.0	1.0	4.2
5.....	4.3	7.3	6.5	12.3	10.0	8.8	3.8	1.8	1.0	1.0	1.3	4.1
6.....	4.5	7.2	6.7	11.7	10.2	8.7	3.7	1.8	1.0	1.0	1.2	4.0
7.....	3.8	7.0	7.1	11.0	10.5	8.5	3.5	1.6	1.0	0.9	1.2	4.0
8.....	3.5	6.8	7.6	10.8	10.2	8.4	3.3	1.6	1.2	0.9	1.2	3.8
9.....	5.2	6.5	8.0	10.5	10.0	8.2	3.2	1.5	1.2	0.9	1.2	3.5
10.....	4.2	6.3	8.5	10.3	9.8	7.8	3.0	1.5	1.2	1.0	1.0	3.3
11.....	4.5	6.2	8.7	10.0	9.4	7.5	2.8	1.5	1.2	1.3	1.0	3.2
12.....	5.0	6.0	9.0	9.7	9.2	7.2	2.6	1.4	1.2	1.2	0.9	3.1
13.....	5.6	5.8	8.8	9.7	9.0	6.8	2.5	1.4	1.3	1.1	9.2	3.0
14.....	5.8	5.5	8.7	9.6	8.8	6.2	2.5	1.4	0.9	1.0	10.5	3.0
15.....	6.3	5.3	8.7	9.3	8.6	6.0	2.3	1.3	0.9	1.0	9.3	2.8
16.....	6.7	5.2	8.5	8.9	8.3	5.6	2.2	1.3	0.9	1.1	6.3	2.8
17.....	6.9	5.0	8.3	8.5	8.2	5.5	2.2	1.3	1.0	1.2	7.8	2.8
18.....	7.4	4.9	8.1	8.0	7.8	5.4	2.2	1.2	0.9	1.2	11.0	2.7
19.....	7.9	4.8	8.3	7.5	7.5	5.4	2.2	1.2	0.8	1.1	12.1	2.5
20.....	8.2	4.7	8.3	7.2	7.0	5.4	2.1	1.2	0.8	1.1	13.4	2.5
21.....	8.3	4.7	8.5	9.5	6.9	5.3	2.1	1.2	0.8	1.2	11.2	2.3
22.....	8.6	4.6	8.8	9.3	6.8	5.3	2.1	1.2	1.0	1.2	10.0	2.3
23.....	9.2	4.5	9.0	8.8	6.8	5.3	2.0	1.1	1.0	1.0	9.8	2.2
24.....	9.5	4.5	9.0	8.5	6.8	5.3	2.0	1.0	1.2	1.0	9.3	2.2
25.....	9.8	4.5	9.5	8.4	6.8	5.2	2.0	0.9	1.2	1.0	8.2	2.2
26.....	12.2	4.5	9.8	8.3	6.0	5.2	2.0	0.9	1.1	0.9	7.4	2.2
27.....	14.4	4.4	10.5	8.2	6.0	5.0	1.8	0.9	1.2	0.9	6.1	2.0
28.....	17.1	4.4	10.8	8.0	6.0	4.8	1.7	0.8	1.2	0.9	5.7	2.0
29.....	13.2		11.0	7.8	8.3	4.7	1.7	0.8	1.2	1.0	5.2	2.0
30.....	11.6		17.1	7.5	9.2	4.5	1.6	0.8	1.2	0.8	5.0	1.9
31.....	9.0		16.3		9.0		1.5	1.0		0.8		1.9
Means.	7.4	5.8	8.8	9.8	8.5	6.6	2.6	1.3	1.0	1.0	5.7	3.0

## SACRAMENTO RIVER SYSTEM AMERICAN RIVER, SACRAMENTO, CAL.- Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1901												
1	1.0	2.7	12.1	11.8	8.3	9.2	4.8	2.3	1.2	2.9	1.2	2.4
2	1.8	2.7	10.1	11.3	8.2	8.8	4.8	2.2	1.2	2.9	1.2	2.4
3	2.0	2.7	13.5	10.7	8.5	8.5	4.7	2.2	1.2	2.8	1.2	2.3
4	2.8	2.7	12.1	10.2	8.8	8.2	4.5	2.1	1.2	2.8	1.2	2.2
5	4.0	2.7	13.0	10.2	9.0	8.0	4.4	2.0	1.2	3.0	1.2	2.2
6	1.0	2.0	12.3	11.0	9.5	7.8	4.3	1.9	1.2	3.0	1.2	1.8
7	3.8	2.0	11.5	11.3	10.2	7.5	4.3	1.8	1.2	3.5	1.2	1.8
8	3.7	2.0	11.0	11.5	10.7	7.3	4.2	1.8	1.2	3.8	1.2	1.8
9	3.7	2.5	13.0	11.5	11.1	7.2	4.2	1.8	1.2	5.1	1.2	1.8
10	3.0	2.5	11.0	11.7	11.0	7.0	4.1	1.8	1.2	4.5	1.2	1.8
11	3.5	3.0	11.3	11.8	12.0	6.8	4.1	1.8	1.2	10.2	1.2	1.9
12	3.4	12.8	13.7	12.0	13.2	6.5	4.1	1.8	1.2	8.1	1.2	1.9
13	3.3	11.7	12.4	13.2	13.1	6.3	3.8	1.7	1.2	4.8	1.2	1.9
14	3.1	9.1	12.1	12.5	13.0	6.2	3.8	1.7	1.2	4.1	1.2	1.9
15	3.0	7.3	11.5	12.2	12.8	6.1	3.7	1.7	1.2	3.8	1.2	2.0
16	2.8	15.5	13.0	12.0	12.7	6.0	3.5	1.7	1.2	3.7	1.2	2.0
17	3.7	11.8	11.7	11.8	12.5	6.0	3.4	1.6	1.2	3.6	1.2	2.0
18	3.0	10.0	15.2	11.5	12.2	5.8	3.3	1.6	1.2	2.9	1.2	2.0
19	3.0	9.7	10.0	11.2	11.5	5.8	3.2	1.4	1.2	2.8	1.2	2.0
20	3.2	9.5	18.8	10.8	11.2	5.7	3.2	1.4	1.2	2.6	1.2	2.0
21	3.0	9.3	10.3	10.6	12.2	5.5	3.2	1.3	1.2	2.4	1.2	2.0
22	2.0	17.0	15.5	10.5	13.0	5.3	3.1	1.3	1.2	2.2	1.2	2.0
23	3.0	10.5	11.1	10.2	13.7	5.3	2.9	1.3	1.2	2.2	1.2	2.0
24	2.8	18.0	13.2	10.0	12.8	5.2	2.9	1.3	3.3	2.2	3.3	2.0
25	2.8	10.0	12.0	9.8	11.7	5.2	2.8	1.2	3.2	2.2	3.2	3.0
26	2.8	15.5	11.8	9.7	11.5	5.2	2.8	1.2	3.2	2.2	3.2	2.1
27	2.8	10.3	10.7	9.4	11.2	5.0	2.7	1.2	3.2	2.2	3.2	2.4
28	2.8	11.5	15.1	9.2	10.8	5.0	2.6	1.2	3.2	2.1	3.0	2.2
29	2.8	13.8	10.3	9.0	10.6	4.9	2.5	1.2	3.0	2.1	2.9	2.2
30	2.7		11.2	8.5	10.2	4.8	2.5	1.2	2.9	2.1	2.8	2.5
31	2.7		12.5		9.3		2.4	1.2		2.1		10.0
Months	3.0	9.1	13.4	10.9	11.2	6.4	3.6	1.6	1.7	3.4	1.6	2.4

## SACRAMENTO RIVER SYSTEM SACRAMENTO RIVER, RED BLUFF, CAL.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1902												
1	10.0	2.7	2.9	3.3	3.8	1.2	0.3	0.3	-0.3	-0.5	2.0	3.2
2	21.8	2.7	2.9	4.1	3.6	1.2	0.3	0.3	-0.3	-0.3	1.8	3.2
3	23.4	2.9	3.8	4.6	3.6	1.2	0.3	0.3	0.3	-0.1	1.6	3.2
4	13.5	3.7	4.2	3.4	3.6	1.1	0.3	0.3	0.3	1.8	1.4	3.2
5	9.4	3.0	4.2	3.0	3.2	1.1	0.3	0.3	0.1	8.0	1.4	3.1
6	13.3	2.8	6.3	4.8	3.2	1.0	0.3	0.3	1.3	7.0	1.0	3.1
7	13.6	2.7	9.8	4.8	3.2	0.8	0.4	0.3	0.7	5.2	1.2	3.1
8	13.9	2.7	28.2	4.8	3.1	0.8	0.4	0.3	0.3	2.1	0.8	3.1
9	13.4	2.4	16.8	4.4	3.1	0.7	0.4	0.3	0.0	0.0	0.4	3.1
10	14.2	2.3	10.7	4.2	3.1	0.6	0.4	0.3	0.2	-0.1	0.4	3.1
11	12.6	2.2	9.4	4.1	3.1	0.6	0.4	0.3	0.3	-0.1	0.4	3.4
12	12.4	2.2	9.0	4.8	3.0	0.5	0.4	0.3	0.3	0.0	0.4	3.6
13	9.2	1.9	8.2	3.7	2.9	0.5	0.4	0.3	0.3	0.9	0.4	3.6
14	9.0	1.9	6.1	3.3	2.9	0.5	0.4	0.3	0.4	0.1	1.0	7.2
15	7.4	1.8	4.9	3.4	2.7	0.2	0.4	0.3	0.4	0.1	1.2	7.6
16	8.3	1.8	3.4	3.4	2.7	0.0	0.4	0.3	0.4	0.1	1.2	6.8
17	7.0	1.8	3.4	3.5	2.6	0.0	0.4	0.3	0.4	0.1	1.6	6.4
18		1.8	3.7	3.2	2.5	0.0	0.4	0.3	0.3	1.2	1.6	6.6
19	5.4	1.9	3.3	3.9	2.4	0.2	0.4	0.3	0.3	4.3	1.6	3.8
20	5.5	1.7	3.3	3.3	2.7	0.2	0.4	0.3	0.3	4.2	1.4	3.8
21	5.8	1.7	3.9	3.9	2.7	0.2	0.4	0.3	0.3	2.7	3.0	7.9
22	5.7	1.7	3.7	3.4	2.8	0.2	0.4	0.3	0.3	2.0	7.3	16.8
23	5.7	1.7	3.8	3.8	2.8	0.2	0.4	0.3	0.3	1.8	3.2	12.3
24	5.7	1.7	3.9	3.7	2.7	0.3	0.4	0.3	0.3	1.5	3.7	11.1
25	5.7	1.7	3.9	3.7	2.7	0.3	0.4	0.3	0.3	1.1	3.7	12.5
26	5.7	1.7	3.9	3.7	2.7	0.3	0.4	0.3	0.3	1.1	4.2	10.8
27	5.7	1.7	3.9	3.7	2.7	0.3	0.4	0.3	0.3	1.8	3.2	8.2
28	5.7	1.7	3.9	3.7	2.7	0.3	0.4	0.3	0.3	1.8	3.2	7.6
29	5.7	1.7	3.9	3.7	2.7	0.3	0.4	0.3	0.3	1.2	3.2	6.7
Months	6.7	2.3	6.3	4.8	2.5	0.3	0.4	0.3	0.3	1.3	1.7	2.8

## SACRAMENTO RIVER SYSTEM—SACRAMENTO RIVER, RED BLUFF, CAL.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	4.4	4.3	12.4	4.2	5.3	2.0	0.5	-0.1	-0.3	0.7	0.1	8.7
2.....	4.6	4.3	12.0	4.2	4.8	2.0	0.5	-0.1	-0.3	0.4	0.0	12.2
3.....	17.6	4.8	11.6	4.2	4.3	1.8	0.5	-0.1	-0.3	0.8	-0.1	6.0
4.....	19.4	7.9	11.1	4.1	4.1	1.8	0.5	-0.1	-0.3	0.3	-0.1	17.5
5.....	17.4	10.4	11.1	4.1	3.9	1.6	0.4	-0.1	-0.3	0.2	-0.1	13.0
6.....	15.0	9.6	10.8	3.8	3.7	1.4	0.4	-0.1	-0.3	0.2	-0.1	10.6
7.....	14.1	8.4	9.9	3.8	3.7	1.4	0.3	-0.1	-0.3	0.2	-0.1	5.5
8.....	9.6	10.6	9.3	3.6	3.6	1.2	0.3	-0.2	-0.3	0.2	1.0	5.6
9.....	6.6	14.7	8.7	3.6	3.3	1.2	0.3	-0.2	-0.3	0.2	1.8	5.9
10.....	6.0	10.3	8.0	3.4	3.1	1.2	0.3	-0.2	-0.3	0.2	1.3	5.4
11.....	5.2	9.2	8.0	3.4	2.9	1.2	0.3	-0.2	-0.3	0.2	1.3	4.9
12.....	5.2	8.9	7.7	3.4	2.9	1.2	0.3	-0.2	-0.3	0.2	1.0	4.4
13.....	5.2	5.5	7.2	3.4	2.9	1.2	0.3	-0.2	-0.3	0.2	0.8	4.1
14.....	5.5	5.5	6.9	3.4	2.9	1.1	0.3	-0.2	-0.4	0.2	0.5	3.6
15.....	6.3	4.8	6.9	3.4	2.9	1.1	0.3	-0.2	-0.4	0.1	1.2	3.0
16.....	7.0	5.2	6.9	3.4	2.8	1.1	0.3	-0.2	-0.4	0.1	2.2	2.4
17.....	7.0	6.6	6.6	3.4	2.8	1.1	0.2	-0.3	-0.4	0.0	2.2	1.4
18.....	6.8	10.7	6.6	3.3	2.8	1.1	0.2	-0.3	-0.4	0.0	1.6	1.4
19.....	6.8	9.8	6.3	3.3	2.7	1.0	0.2	-0.3	-0.3	0.0	1.6	1.3
20.....	6.3	20.1	6.1	3.3	2.7	1.0	0.1	-0.3	-0.3	0.0	1.8	1.3
21.....	8.2	19.2	5.8	3.3	2.6	1.0	0.1	-0.3	-0.3	0.0	2.0	1.2
22.....	13.8	16.6	5.5	3.3	2.6	1.0	0.1	-0.3	-0.2	-0.1	1.9	1.2
23.....	8.4	18.8	5.2	3.3	2.6	0.8	0.1	-0.3	-0.2	-0.1	2.2	1.2
24.....	7.2	17.9	5.0	3.2	2.6	0.8	0.1	-0.3	0.0	-0.1	2.1	1.2
25.....	7.0	16.6	4.9	3.2	2.5	0.8	0.1	-0.3	0.4	0.1	2.1	1.2
26.....	6.6	14.5	4.9	3.2	2.5	0.8	0.0	-0.3	0.1	0.8	2.8	1.1
27.....	6.3	13.0	4.4	3.2	2.5	0.7	0.0	-0.3	0.1	1.0	3.4	1.1
28.....	5.4	13.0	4.4	3.5	2.4	0.7	0.0	-0.3	0.1	1.6	4.6	1.1
29.....	4.3		4.3	6.2	2.4	0.6	0.0	-0.3	0.0	2.0	12.3	1.1
30.....	4.3		4.3	6.5	2.3	0.6	0.0	-0.3	0.3	0.8	8.5	1.1
31.....	4.3		4.2		2.2		-0.1	-0.3		0.1		1.1
Means.	8.1	8.9	7.4	3.7	3.1	1.2	0.2	-0.2	-0.2	0.3	2.0	4.2
<b>1902</b>												
1.....	1.1	0.6	16.6	4.7	4.4	3.6	1.4	0.3	0.2	-0.1	0.5	2.5
2.....	2.4	0.8	16.2	4.7	4.4	3.6	1.2	0.3	0.2	-0.1	0.5	3.0
3.....	6.7	1.0	15.4	4.7	4.4	3.4	1.1	0.3	0.2	-0.1	0.5	2.8
4.....	5.2	1.4	14.8	4.7	4.4	3.0	1.1	0.3	0.2	-0.1	0.6	2.8
5.....	2.0	2.0	14.3	4.7	4.4	2.9	0.9	0.3	0.2	-0.1	0.8	3.6
6.....	2.0	6.4	13.5	6.4	4.3	2.9	0.9	0.3	0.2	-0.1	1.0	5.7
7.....	2.0	12.2	12.2	5.6	4.3	2.7	0.9	0.3	0.1	-0.1	2.6	7.4
8.....	2.0	19.1	11.4	5.4	4.3	2.7	0.7	0.3	0.1	-0.1	4.5	7.1
9.....	1.8	20.5	11.2	5.4	4.3	2.6	0.7	0.3	0.1	-0.1	19.4	6.9
10.....	1.8	24.7	11.1	5.0	4.3	2.6	0.7	0.2	0.1	-0.1	23.3	10.6
11.....	1.7	22.6	10.0	5.0	4.3	2.6	0.7	0.2	0.1	-0.1	16.6	10.4
12.....	1.3	23.5	9.4	4.9	4.2	2.5	0.7	0.2	0.1	0.0	10.4	7.2
13.....	1.2	15.2	9.1	4.9	4.2	2.5	0.6	0.2	0.1	0.3	5.5	6.4
14.....	1.0	13.3	9.1	4.6	4.2	2.4	0.6	0.2	0.1	0.1	4.8	6.0
15.....	1.2	19.2	8.7	4.6	4.0	2.2	0.6	0.2	0.1	-0.1	4.4	6.0
16.....	1.2	20.0	8.4	4.6	4.0	2.2	0.6	0.3	0.1	-0.1	5.8	5.6
17.....	1.4	18.0	8.4	4.6	4.0	2.0	0.6	0.5	0.1	-0.1	5.3	5.2
18.....	1.2	14.6	8.2	4.6	3.9	1.9	0.5	0.4	0.0	-0.1	6.8	4.8
19.....	1.2	17.0	8.0	4.6	3.9	1.9	0.5	0.3	0.0	-0.1	10.6	4.6
20.....	1.3	10.6	7.5	4.5	3.9	1.9	0.5	0.2	0.0	-0.1	6.5	4.6
21.....	1.4	14.0	7.5	4.5	3.9	1.8	0.5	0.2	0.0	1.2	6.2	4.4
22.....	2.1	17.0	7.5	4.5	3.9	1.8	0.5	0.2	0.0	2.4	6.0	4.4
23.....	2.0	16.6	6.8	4.8	3.9	1.7	0.4	0.2	0.0	3.6	5.7	6.1
24.....	2.0	24.7	6.6	5.5	3.8	1.7	0.4	0.2	0.0	3.9	5.7	5.4
25.....	3.4	24.3	6.6	5.2	3.8	1.7	0.4	0.2	0.0	4.0	5.3	5.2
26.....	2.0	24.4	5.9	4.8	3.8	1.6	0.3	0.2	0.0	3.3	4.8	12.4
27.....	1.8	22.3	5.4	4.8	3.6	1.6	0.3	0.2	0.0	2.6	4.6	10.0
28.....	1.0	16.8	5.2	4.6	3.6	1.6	0.3	0.2	-0.1	1.5	3.8	6.2
29.....	0.9		4.8	4.4	3.6	1.6	0.3	0.2	-0.1	1.6	2.9	5.7
30.....	0.7		4.7	4.4	3.6	1.5	0.3	0.2	-0.1	1.2	2.5	4.5
31.....	0.6		4.7				0.3	0.2		1.0		4.0
Means.	1.9	15.1	9.3	4.9	4.0	2.3	0.6	0.3	0.1	0.8	5.9	5.8

## SACRAMENTO RIVER SYSTEM—SACRAMENTO RIVER, RED BLUFF, CAL.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	4.0	4.5	6.0	11.8	4.0	1.6	0.4	0.2	0.0	0.0	0.0	5.0
2.....	3.6	4.5	5.4	10.3	4.0	1.5	0.4	0.2	0.0	-0.1	0.0	4.4
3.....	3.2	4.5	5.2	9.4	3.8	1.5	0.4	0.2	0.0	-0.1	0.6	3.7
4.....	3.2	4.7	5.5	8.9	3.6	1.4	0.4	0.1	0.0	-0.1	4.2	3.7
5.....	3.0	4.7	6.7	8.0	3.4	1.3	0.4	0.1	0.0	-0.1	4.8	3.6
6.....	2.8	4.8	9.6	7.6	3.3	1.3	0.4	0.1	0.0	-0.1	4.4	3.2
7.....	2.6	4.8	6.3	7.6	3.3	1.2	0.4	0.1	-0.1	-0.1	13.0	3.0
8.....	2.4	4.8	5.9	7.0	3.3	1.1	0.4	0.1	-0.1	-0.1	5.6	2.8
9.....	2.4	4.8	6.4	7.0	3.2	1.1	0.4	0.1	-0.1	0.0	5.0	2.8
10.....	2.4	4.7	5.5	6.7	3.2	1.0	0.3	0.1	-0.1	1.2	4.4	3.4
11.....	2.4	4.4	5.7	6.3	3.2	0.8	0.3	0.1	-0.1	0.8	5.3	3.3
12.....	2.4	4.6	9.3	6.0	3.2	0.8	0.3	0.1	-0.1	0.6	6.4	4.3
13.....	2.3	4.6	15.8	5.6	3.0	0.8	0.3	0.1	-0.1	0.4	6.6	4.0
14.....	2.3	4.6	16.4	5.2	3.0	0.7	0.3	0.1	-0.1	0.4	5.5	4.1
15.....	2.3	4.2	14.7	5.2	3.0	0.7	0.3	0.1	-0.1	0.4	5.3	4.4
16.....	2.3	4.2	14.0	5.2	3.2	0.7	0.3	0.1	-0.1	0.5	5.0	5.5
17.....	2.2	4.2	11.4	4.9	3.1	0.7	0.3	0.1	-0.1	0.4	4.4	14.4
18.....	2.2	4.2	9.5	4.9	2.8	0.5	0.3	0.1	-0.2	0.3	2.1	12.0
19.....	2.2	4.4	7.7	4.8	2.8	0.5	0.3	0.0	-0.2	0.3	5.3	10.2
20.....	1.8	4.4	7.4	4.8	2.8	0.5	0.3	0.0	-0.2	0.3	15.5	9.5
21.....	6.6	4.6	6.9	4.4	3.0	0.5	0.3	0.0	-0.2	0.2	21.3	8.2
22.....	15.4	5.0	6.8	4.4	3.1	0.5	0.3	0.0	-0.2	0.2	24.1	7.6
23.....	18.0	5.4	6.5	4.4	4.2	0.5	0.2	0.0	-0.2	0.2	15.5	7.0
24.....	18.0	5.8	6.5	4.4	2.8	0.4	0.2	0.0	-0.2	0.2	14.0	6.8
25.....	24.4	5.8	6.5	4.4	2.8	0.4	0.2	0.0	-0.2	0.2	12.7	6.4
26.....	20.6	6.0	7.9	4.3	2.6	0.4	0.2	0.0	-0.2	0.2	10.5	5.7
27.....	18.7	6.0	8.5	4.3	2.4	0.4	0.2	0.0	-0.2	0.1	7.4	5.0
28.....	10.2	6.2	13.4	4.3	2.0	0.4	0.2	0.0	-0.2	0.1	6.2	4.6
29.....	9.0		19.8	4.1	1.9	0.4	0.2	0.0	-0.2	0.1	5.4	4.2
30.....	8.7		14.7	4.1	1.8	0.4	0.2	0.0	-0.2	0.1	5.2	3.0
31.....	9.4		12.3		1.8		0.2	0.0		0.0		2.9
<b>Means</b>	<b>6.8</b>	<b>4.8</b>	<b>9.2</b>	<b>6.0</b>	<b>3.0</b>	<b>0.8</b>	<b>0.3</b>	<b>0.1</b>	<b>-0.1</b>	<b>0.2</b>	<b>7.5</b>	<b>5.4</b>
<b>1904</b>												
1.....	2.9	3.4	15.6	13.4	10.2	5.5	3.1	0.5	0.3	0.4	4.0	3.8
2.....	3.4	3.4	16.8	12.7	9.7	5.5	3.1	0.5	0.3	0.4	5.4	3.6
3.....	3.6	3.4	17.0	10.2	9.4	5.4	3.1	0.5	0.3	0.6	4.2	3.6
4.....	4.5	3.4	17.6	9.9	9.4	5.4	2.8	0.5	0.3	0.6	3.6	3.4
5.....	4.4	4.0	16.4	8.6	9.3	5.3	2.6	0.5	0.3	0.6	3.2	3.4
6.....	3.8	4.3	14.6	8.6	9.1	5.2	2.2	0.5	0.3	0.6	3.0	3.4
7.....	3.0	7.2	18.0	9.2	9.0	5.2	2.1	0.5	0.3	1.0	2.8	3.8
8.....	3.0	6.2	24.4	9.2	8.7	5.2	1.9	0.5	0.3	4.4	2.2	3.8
9.....	3.0	5.9	21.7	9.0	8.4	5.2	1.9	0.5	0.3	6.2	2.2	4.2
10.....	3.2	5.9	26.3	9.7	8.3	5.0	1.9	0.5	0.3	9.1	2.2	5.7
11.....	3.2	8.8	21.8	10.3	8.3	5.1	1.7	0.5	0.3	17.4	2.2	5.6
12.....	3.0	5.5	18.4	10.5	8.1	5.1	1.7	0.5	0.3	11.0	2.0	5.9
13.....	3.0	12.3	14.8	10.6	7.7	5.2	1.4	0.5	0.3	8.4	1.8	6.4
14.....	2.9	4.6	17.7	11.2	7.4	5.1	1.4	0.5	0.3	4.6	1.8	6.8
15.....	2.9	12.7	21.4	11.5	7.0	5.0	1.4	0.5	0.3	9.3	3.4	6.0
16.....	2.8	28.2	16.5	11.6	7.0	4.8	1.2	0.5	0.3	6.1	4.3	5.4
17.....	2.8	19.4	20.6	11.6	7.1	4.6	1.2	0.4	0.3	4.4	3.8	4.9
18.....	5.0	13.1	22.6	11.2	7.1	4.6	1.2	0.4	0.3	4.2	3.6	4.9
19.....	5.0	12.0	19.5	10.4	7.0	4.6	1.2	0.4	0.3	4.1	3.6	4.5
20.....	4.4	11.3	20.8	12.2	6.8	4.4	1.0	0.4	0.3	3.8	3.1	4.7
21.....	4.2	15.5	17.2	11.4	6.8	4.3	0.9	0.4	0.4	3.8	3.1	4.7
22.....	4.2	22.2	16.0	11.9	6.8	4.1	0.9	0.4	0.8	3.8	3.0	5.3
23.....	4.0	19.8	15.6	11.4	6.6	4.1	0.8	0.4	2.4	3.2	2.9	6.0
24.....	3.8	23.6	14.2	11.2	6.4	4.1	0.8	0.4	5.7	3.0	2.9	6.8
25.....	3.8	21.9	14.3	11.2	6.2	4.1	0.8	0.3	5.2	3.0	2.3	6.8
26.....	3.8	18.0	11.0	12.7	6.0	4.1	0.8	0.3	2.4	2.9	2.5	6.3
27.....	3.6	20.3	10.4	15.4	6.0	4.1	0.7	0.3	1.4	2.9	4.7	6.2
28.....	3.6	18.0	17.7	14.6	6.0	4.0	0.7	0.3	1.2	2.9	5.1	6.6
29.....	3.4	15.5	12.3	11.2	5.8	4.0	0.7	0.3	0.6	2.6	4.8	7.1
30.....	3.4		18.0	10.4	5.6	3.8	0.5	0.3	0.4	2.4	3.5	16.0
31.....	3.2		14.9		5.5		0.5	0.3		2.4		15.4
<b>Means</b>	<b>3.6</b>	<b>12.0</b>	<b>17.8</b>	<b>11.1</b>	<b>7.5</b>	<b>4.7</b>	<b>1.2</b>	<b>0.4</b>	<b>0.9</b>	<b>4.2</b>	<b>3.2</b>	<b>5.8</b>



## SACRAMENTO RIVER SYSTEM—SACRAMENTO RIVER, TEHAMA, CAL.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	11.5	2.5	3.1	2.6	2.2	1.4	0.8	0.5	0.3	0.4	1.2	2.2
2.....	16.0	2.5	3.1	3.5	2.4	1.3	0.8	0.5	0.3	0.5	1.3	2.1
3.....	16.7	2.5	3.4	3.9	2.4	1.3	0.8	0.5	0.3	0.8	1.2	2.0
4.....	11.0	2.8	4.3	3.3	2.5	1.2	0.8	0.5	0.3	1.5	1.1	1.8
5.....	10.3	2.8	5.0	3.1	5.2	1.2	0.8	0.5	1.1	6.0	1.0	1.8
6.....	9.5	2.6	5.0	2.8	3.8	1.2	0.8	0.5	0.7	2.0	0.9	1.7
7.....	11.0	2.4	7.8	3.2	3.3	1.1	0.8	0.5	0.5	1.2	0.9	1.7
8.....	11.7	2.3	16.5	3.0	3.1	1.1	0.8	0.5	0.5	1.0	0.9	1.6
9.....	8.6	2.2	12.5	2.8	2.9	1.1	0.8	0.5	0.5	0.8	0.9	1.5
10.....	7.2	2.2	9.3	2.5	2.8	1.1	0.8	0.6	0.5	0.8	0.8	1.5
11.....	6.4	2.2	7.7	2.6	3.6	1.1	0.8	0.7	0.5	0.8	0.8	1.4
12.....	5.8	2.1	6.8	3.5	3.0	1.0	0.8	0.6	0.5	0.8	0.8	1.4
13.....	5.3	2.0	6.2	4.5	2.9	1.0	0.8	0.6	0.5	0.8	0.8	1.4
14.....	5.1	2.0	5.7	3.9	2.8	1.0	0.8	0.5	0.5	0.7	0.8	2.9
15.....	5.6	2.0	5.2	3.5	2.4	1.0	0.6	0.4	0.5	0.7	0.8	4.2
16.....	5.2	2.0	4.8	3.2	2.3	1.2	0.6	0.4	0.5	0.6	0.8	3.9
17.....	5.0	1.9	4.7	3.0	2.3	1.0	0.6	0.3	0.5	0.6	2.4	6.0
18.....	4.7	1.9	4.3	3.0	2.3	1.1	0.6	0.3	0.5	0.7	3.4	5.0
19.....	4.5	2.2	4.2	2.9	2.2	1.1	0.6	0.3	0.5	1.2	2.5	4.2
20.....	4.3	3.7	4.1	3.1	2.1	1.0	0.6	0.3	0.4	4.2	2.1	5.3
21.....	4.2	5.8	3.8	3.7	2.1	1.0	0.6	0.3	0.4	2.2	7.6	12.5
22.....	3.8	5.9	3.8	3.8	2.0	1.0	0.6	0.3	0.4	1.7	3.7	8.5
23.....	3.7	4.8	3.6	3.2	1.9	1.3	0.5	0.3	0.4	1.4	2.7	6.5
24.....	3.3	4.2	3.5	3.0	1.8	1.2	0.5	0.3	0.4	1.2	2.2	5.4
25.....	3.3	3.8	3.4	2.8	1.8	1.2	0.5	0.3	0.4	1.1	2.6	4.6
26.....	3.2	3.9	3.3	2.5	1.8	1.1	0.5	0.3	0.4	1.0	3.8	4.0
27.....	3.0	3.6	3.2	2.3	1.8	1.0	0.5	0.3	0.4	0.9	3.3	3.6
28.....	2.8	3.2	3.1	2.4	1.7	1.0	0.5	0.3	0.4	0.9	2.8	3.2
29.....	2.7	.....	3.0	2.4	1.6	0.9	0.5	0.3	0.4	1.0	2.5	3.0
30.....	2.7	.....	2.8	2.2	1.6	0.8	0.5	0.3	0.4	0.9	2.2	2.8
31.....	2.5	.....	2.7	.....	1.5	.....	0.5	0.3	.....	0.9	.....	2.6
<b>Means.</b>	<b>6.5</b>	<b>2.9</b>	<b>5.2</b>	<b>3.1</b>	<b>2.5</b>	<b>1.1</b>	<b>0.7</b>	<b>0.4</b>	<b>0.5</b>	<b>1.3</b>	<b>2.0</b>	<b>3.6</b>
<b>1901</b>												
1.....	2.4	3.5	9.1	3.0	3.8	1.9	0.8	0.2	0.3	0.5	0.5	3.8
2.....	2.2	3.2	8.9	3.0	3.6	1.9	0.8	0.2	0.3	0.4	0.4	4.5
3.....	9.0	3.2	8.3	3.5	3.4	1.8	0.8	0.2	0.3	0.5	0.4	4.8
4.....	14.2	3.4	7.5	3.2	3.2	1.8	0.8	0.3	0.3	0.5	0.4	11.7
5.....	7.5	6.5	6.8	3.0	3.0	1.5	0.7	0.3	0.3	0.5	0.4	6.4
6.....	5.7	4.5	6.4	3.3	3.0	1.4	0.7	0.3	0.3	0.5	0.4	7.3
7.....	5.5	3.8	6.2	2.8	2.9	1.4	0.7	0.3	0.3	0.5	0.4	5.2
8.....	4.4	4.8	5.9	3.0	2.9	1.4	0.7	0.3	0.3	0.5	0.4	4.3
9.....	4.0	3.8	5.6	3.0	2.8	1.3	0.6	0.3	0.3	0.5	0.4	3.6
10.....	3.5	3.3	5.3	3.0	2.8	1.3	0.6	0.3	0.3	0.5	0.6	3.3
11.....	3.2	3.0	5.8	3.0	2.8	1.3	0.5	0.3	0.3	0.5	0.5	3.0
12.....	3.8	2.8	5.4	2.8	2.8	1.2	0.5	0.3	0.3	0.5	0.5	2.8
13.....	4.7	2.8	4.9	2.8	2.8	1.2	0.4	0.3	0.3	0.5	0.5	2.4
14.....	4.5	4.0	4.8	2.9	2.8	1.2	0.5	0.3	0.3	0.4	0.5	2.2
15.....	5.5	3.8	4.6	2.8	2.8	1.1	0.5	0.3	0.3	0.4	0.5	2.1
16.....	4.4	4.2	4.4	2.8	2.7	1.1	0.4	0.3	0.3	0.4	0.9	2.0
17.....	4.4	7.8	4.3	2.8	2.7	1.1	0.4	0.3	0.3	0.4	1.2	1.8
18.....	4.2	6.8	4.2	2.8	2.6	1.0	0.4	0.3	0.3	0.4	1.1	1.8
19.....	4.0	11.0	4.0	2.8	2.4	0.9	0.4	0.3	0.3	0.4	0.8	1.8
20.....	3.8	15.2	5.9	2.8	2.2	0.9	0.4	0.3	0.3	0.4	1.2	1.7
21.....	6.2	14.2	3.8	2.8	2.2	0.9	0.3	0.3	0.2	0.4	1.9	1.6
22.....	9.8	11.8	3.8	2.6	2.2	0.9	0.3	0.3	0.2	0.4	1.3	1.6
23.....	7.8	13.5	3.8	2.6	2.2	0.9	0.3	0.3	0.2	0.4	1.3	1.5
24.....	6.2	13.0	3.7	2.5	2.1	0.9	0.3	0.3	0.8	0.4	3.0	1.5
25.....	5.3	11.5	3.6	2.5	2.1	0.9	0.3	0.3	0.5	0.4	1.8	1.4
26.....	4.8	10.2	3.7	2.3	2.1	0.9	0.3	0.3	0.5	0.4	2.9	1.4
27.....	4.2	9.8	3.6	2.3	2.1	0.8	0.3	0.3	0.5	0.7	3.3	1.3
28.....	4.1	9.5	3.5	2.3	2.1	0.8	0.3	0.3	0.4	1.0	2.5	1.2
29.....	4.1	.....	3.3	4.1	2.1	0.8	0.3	0.3	0.4	1.0	8.8	1.2
30.....	3.9	.....	3.2	4.3	2.1	0.8	0.2	0.3	0.5	0.7	6.2	1.2
31.....	3.8	.....	3.2	.....	2.1	.....	0.2	0.3	.....	0.5	.....	1.2
<b>Means.</b>	<b>5.2</b>	<b>7.0</b>	<b>5.1</b>	<b>2.9</b>	<b>2.6</b>	<b>1.2</b>	<b>0.5</b>	<b>0.3</b>	<b>0.3</b>	<b>0.5</b>	<b>1.5</b>	<b>3.0</b>

## SACRAMENTO RIVER SYSTEM—SACRAMENTO RIVER, TEHAMA, CAL.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1902												
1.....	1.2	1.0	11.2	4.2	5.7	4.2	2.0	1.2	0.8	0.8	1.3	2.5
2.....	1.4	1.2	13.9	4.6	5.4	3.8	1.9	1.2	0.8	0.8	1.3	2.4
3.....	1.6	1.1	10.2	4.6	5.0	3.6	1.9	1.2	0.8	0.8	1.3	2.4
4.....	1.4	1.8	8.9	5.8	5.8	3.4	1.9	1.1	0.8	0.8	1.3	2.3
5.....	1.3	2.5	8.2	5.5	4.7	3.3	1.9	1.1	0.8	0.8	1.3	3.3
6.....	1.2	3.9	10.0	5.8	4.6	3.2	1.8	1.1	0.8	0.8	1.3	3.2
7.....	1.2	8.2	9.2	9.9	5.9	3.2	1.8	1.1	0.8	0.8	1.3	5.8
8.....	1.2	12.6	11.2	9.8	5.8	3.2	1.8	1.2	0.8	0.8	5.5	5.9
9.....	1.2	14.2	13.2	8.2	5.6	3.2	1.8	1.1	0.8	0.8	14.5	5.4
10.....	1.2	17.5	10.1	7.2	5.4	3.2	1.8	1.0	0.7	0.8	17.5	9.2
11.....	1.1	17.2	8.6	6.6	5.2	3.2	1.7	1.0	0.7	0.8	9.1	8.5
12.....	1.1	17.0	7.7	6.2	5.1	3.2	1.6	1.0	0.7	0.8	6.2	7.4
13.....	1.0	11.8	7.3	5.8	5.2	3.1	1.6	1.1	0.7	0.8	4.8	6.3
14.....	1.0	10.8	6.8	5.6	5.9	3.1	1.6	1.1	0.7	0.9	6.1	5.4
15.....	1.0	13.9	6.4	5.6	6.8	2.8	1.6	1.1	0.7	0.9	5.3	4.8
16.....	1.0	13.8	6.0	5.6	5.8	2.8	1.6	1.0	0.7	0.9	4.4	4.3
17.....	1.2	13.2	5.8	5.6	5.5	2.6	1.5	1.0	0.7	0.9	6.2	4.0
18.....	1.1	12.2	5.8	5.7	5.2	2.5	1.5	1.0	0.7	0.9	5.3	3.7
19.....	1.1	9.9	5.8	5.9	4.9	2.5	1.4	1.0	0.7	1.0	8.1	3.4
20.....	1.1	8.6	5.5	5.9	4.7	2.4	1.4	1.0	0.7	1.0	6.1	3.2
21.....	1.2	10.7	5.4	5.6	4.5	2.4	1.4	1.0	0.7	1.1	5.0	3.2
22.....	1.3	12.8	5.3	5.2	4.2	2.4	1.4	0.9	0.7	1.4	4.3	3.1
23.....	1.2	11.9	5.1	4.9	4.1	2.3	1.4	0.9	0.7	1.5	3.8	3.3
24.....	2.0	18.8	4.1	4.8	4.1	2.2	1.3	0.8	0.7	2.5	3.5	3.8
25.....	1.5	18.9	4.8	4.8	4.2	2.2	1.2	0.8	0.7	3.2	3.3	3.6
26.....	1.3	18.4	4.7	4.7	4.2	2.2	1.2	0.8	8.7	2.4	3.0	9.2
27.....	1.2	17.0	4.6	4.6	4.3	2.2	1.2	0.8	0.7	1.8	2.9	7.1
28.....	1.1	13.5	4.4	4.5	4.4	2.2	1.2	0.8	0.7	1.8	2.8	5.8
29.....	1.0	.....	4.3	5.2	4.2	2.0	1.2	0.8	0.7	1.7	2.7	5.0
30.....	1.0	.....	4.3	5.2	4.1	1.9	1.2	0.8	0.7	1.4	2.6	4.5
31.....	1.0	.....	4.2	.....	4.0	.....	1.2	0.8	.....	1.4	.....	4.2
Means.	1.2	11.2	7.2	5.8	5.0	2.8	1.5	1.0	0.7	1.2	1.7	4.7
1903												
1.....	4.1	7.5	4.5	9.2	3.7	2.2	1.3	0.8	0.8	0.7	0.8	3.5
2.....	3.8	6.6	4.3	8.0	3.7	2.2	1.2	0.8	0.8	0.7	0.8	3.2
3.....	3.6	5.6	4.9	7.2	3.7	2.2	1.2	0.8	0.8	0.7	0.8	3.1
4.....	3.4	5.2	5.2	6.8	3.7	2.2	1.2	0.8	0.8	0.8	0.8	2.8
5.....	3.2	5.0	5.6	6.3	3.7	2.0	1.2	0.8	0.8	0.8	1.2	2.8
6.....	3.2	4.6	5.8	5.9	3.6	1.9	1.2	0.8	0.8	0.8	1.2	2.7
7.....	3.0	4.6	5.2	5.6	3.6	1.8	1.2	0.8	0.7	0.8	1.2	2.7
8.....	3.0	4.5	5.5	5.4	3.6	1.8	1.2	0.8	0.7	0.8	1.5	2.6
9.....	2.9	5.2	6.2	5.4	3.2	1.8	1.2	0.8	0.7	0.8	1.2	2.3
10.....	2.8	5.3	5.4	5.6	3.2	1.8	1.2	0.8	0.7	1.0	1.2	2.3
11.....	2.8	5.8	5.0	5.2	3.2	1.8	1.2	0.8	0.7	2.0	1.1	2.2
12.....	2.8	5.8	7.0	5.1	3.2	1.8	1.1	0.8	0.7	1.2	1.5	2.2
13.....	2.7	5.6	10.8	4.8	3.2	1.8	1.1	0.8	0.7	1.1	3.3	2.2
14.....	2.6	4.7	12.0	4.7	3.2	1.8	1.0	0.8	0.7	1.0	7.0	2.2
15.....	2.5	4.4	12.2	4.5	3.1	1.8	1.0	0.8	0.7	1.0	5.5	2.2
16.....	2.4	4.1	10.0	4.3	3.0	1.7	1.0	0.8	0.7	1.0	3.0	6.8
17.....	2.4	4.0	8.8	4.2	2.8	1.7	1.0	0.8	0.7	1.0	2.5	10.2
18.....	2.4	3.8	7.5	4.8	2.8	1.6	1.0	0.8	0.7	1.0	2.3	6.0
19.....	2.3	3.8	6.8	4.2	2.7	1.6	1.0	0.8	0.7	1.0	5.0	5.0
20.....	2.3	3.8	6.2	4.0	2.6	1.6	1.0	0.8	0.7	1.0	11.8	6.2
21.....	2.5	3.8	5.8	3.9	2.6	1.4	1.0	0.8	0.7	1.0	15.0	6.1
22.....	7.8	3.8	5.5	3.9	2.4	1.4	1.0	0.8	0.7	1.0	18.0	5.2
23.....	10.8	4.8	5.2	4.0	2.5	1.4	1.0	0.8	0.7	0.9	12.5	4.2
24.....	11.5	5.2	5.2	4.0	2.5	1.4	0.9	0.8	0.7	0.9	10.0	4.1
25.....	17.5	5.0	5.6	4.0	2.3	1.4	0.9	0.8	0.7	0.9	7.5	3.5
26.....	13.0	4.8	6.5	4.0	2.3	1.4	0.9	0.8	0.7	0.8	6.0	3.3
27.....	13.0	4.8	6.8	3.9	2.3	1.3	0.9	0.8	0.7	0.8	5.3	3.2
28.....	10.2	4.6	10.9	3.8	2.3	1.3	0.9	0.8	0.7	0.8	4.8	3.0
29.....	8.2	.....	13.8	3.7	2.3	1.3	0.9	0.8	0.7	0.8	4.0	2.8
30.....	8.2	.....	11.0	3.7	2.2	1.3	0.9	0.8	0.7	0.8	3.7	2.5
31.....	8.0	.....	10.5	.....	2.2	.....	0.9	0.8	.....	0.8	.....	2.7
Means.	5.4	4.9	7.3	5.0	2.9	1.7	1.1	0.8	0.7	0.9	4.7	3.6

## SACRAMENTO RIVER SYSTEM—SACRAMENTO RIVER, TEHAMA, CAL.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	3.7	2.4	11.0	10.7	8.0	4.8	2.2	1.3	1.2	1.4	1.8	3.8
2.....	2.8	2.3	12.0	10.0	8.2	4.7	2.2	1.3	1.2	1.4	1.8	2.8
3.....	2.7	2.3	11.9	9.7	8.0	4.5	2.0	1.3	1.0	1.2	2.2	2.5
4.....	2.7	2.2	12.6	9.7	7.8	4.5	2.0	1.3	1.0	1.2	2.0	2.5
5.....	3.0	3.5	11.5	9.5	7.8	4.4	1.9	1.3	1.0	1.2	1.8	2.5
6.....	2.8	2.9	11.0	8.8	7.8	4.2	1.8	1.3	1.0	1.2	1.8	2.0
7.....	2.5	2.8	13.0	8.8	7.6	4.2	1.8	1.2	1.0	1.2	1.8	2.0
8.....	2.4	2.8	17.8	8.7	7.3	4.2	2.0	1.2	1.0	1.6	1.8	2.0
9.....	2.4	2.8	16.0	8.5	7.1	4.2	2.0	1.2	1.0	5.0	1.7	2.0
10.....	2.3	2.7	20.0	8.4	7.0	3.9	2.0	1.2	1.0	6.9	1.7	2.0
11.....	3.5	2.5	16.8	8.7	6.9	3.6	2.0	1.2	1.0	9.8	1.7	2.2
12.....	3.0	10.0	13.5	8.8	6.8	3.3	2.5	1.2	1.0	9.0	1.7	2.8
13.....	2.8	8.5	11.8	8.9	6.3	3.2	1.9	1.2	1.0	5.3	1.7	3.0
14.....	2.5	6.0	13.0	8.8	7.2	3.2	1.9	1.2	0.9	3.4	1.6	3.3
15.....	2.4	12.0	13.8	9.0	6.7	3.2	1.9	1.2	0.9	5.0	1.8	3.0
16.....	2.4	21.0	12.2	8.8	6.5	3.2	1.8	1.2	0.9	4.5	3.3	3.8
17.....	2.4	16.5	13.8	8.5	6.3	3.2	1.8	1.2	0.9	3.0	2.4	2.6
18.....	5.2	10.0	16.2	8.2	6.2	3.2	1.8	1.2	0.9	2.3	2.2	2.4
19.....	5.2	9.2	13.5	9.5	6.2	3.1	1.8	1.2	0.9	2.5	2.8	2.3
20.....	4.2	8.2	15.8	9.4	5.9	3.0	1.8	1.2	0.9	2.3	2.5	2.3
21.....	3.5	12.0	13.5	9.0	5.8	2.9	1.8	1.2	0.8	2.2	2.4	2.2
22.....	3.0	16.5	11.8	8.8	5.8	2.8	1.8	1.2	0.8	2.2	2.3	2.2
23.....	2.6	15.3	11.2	8.3	6.0	2.7	1.7	1.2	1.6	2.2	2.2	2.2
24.....	2.5	17.8	10.8	7.5	6.0	2.6	1.7	1.2	4.0	2.1	2.0	2.8
25.....	2.8	16.8	9.8	7.3	6.0	2.6	1.7	1.2	3.5	2.0	2.0	5.0
26.....	2.5	13.8	9.0	7.0	5.8	2.5	1.6	1.2	3.0	1.8	1.8	3.8
27.....	2.5	14.8	10.0	7.4	5.2	2.5	1.6	1.2	2.8	1.8	1.8	3.0
28.....	2.5	12.2	14.0	10.0	5.2	2.5	1.5	1.2	2.0	1.8	3.2	3.0
29.....	2.4	11.2	14.5	8.7	5.0	2.5	1.5	1.2	1.7	1.8	3.5	3.2
30.....	2.4	.....	13.2	8.3	5.0	2.5	1.5	1.2	1.7	2.0	2.5	13.0
31.....	2.4	.....	11.7	.....	4.8	.....	1.4	1.2	.....	1.8	.....	13.5
Means.	2.9	9.0	13.1	8.8	6.5	3.4	1.8	1.2	1.4	2.9	2.1	3.4

## SACRAMENTO RIVER SYSTEM—SACRAMENTO RIVER, KNIGHTS LANDING, CAL.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	20.2	18.9	17.3	19.2	16.8	14.4	10.2	8.0	7.5	7.4	9.5	14.6
2.....	20.9	18.6	17.2	19.1	16.8	14.2	10.2	7.9	7.5	7.5	9.7	14.3
3.....	22.0	18.3	16.8	19.2	16.9	14.0	10.0	7.9	7.5	7.5	10.2	14.2
4.....	23.0	18.1	17.1	19.6	16.9	13.8	9.9	7.9	7.5	7.7	10.4	14.0
5.....	23.8	18.1	17.9	19.2	16.9	13.6	9.8	7.8	7.5	8.5	10.2	13.7
6.....	24.2	17.8	18.3	18.9	17.1	13.5	9.8	7.8	7.5	10.3	10.0	13.5
7.....	24.2	17.8	18.5	18.8	17.8	13.4	9.7	7.8	8.0	13.8	9.8	13.3
8.....	24.2	17.1	19.3	18.0	17.8	13.2	9.6	7.8	8.3	12.6	9.6	13.7
9.....	23.9	16.8	21.0	18.7	17.6	13.1	9.4	7.8	8.2	11.1	9.5	13.5
10.....	23.8	16.6	21.9	18.4	17.5	12.8	9.3	7.8	8.0	10.0	9.6	12.9
11.....	23.7	16.2	22.5	18.2	17.6	12.7	9.2	7.8	7.8	9.4	9.5	12.7
12.....	23.3	15.9	22.9	18.0	17.6	12.5	9.1	7.8	7.8	9.0	9.4	12.7
13.....	23.1	15.8	23.0	18.1	17.8	12.3	9.1	7.8	7.8	8.8	9.3	12.5
14.....	22.8	15.3	23.0	18.8	17.6	12.0	9.0	7.8	7.8	8.8	9.2	12.5
15.....	22.6	15.3	22.8	18.8	17.2	12.0	8.9	7.7	7.8	8.6	9.2	12.6
16.....	22.4	15.2	22.7	18.5	17.2	11.9	8.8	7.7	7.8	8.5	9.2	15.7
17.....	22.2	15.1	22.5	18.3	17.2	11.8	8.8	7.7	7.8	8.5	9.4	16.0
18.....	22.0	14.9	22.2	18.1	17.0	12.0	8.6	7.7	7.8	8.4	10.3	16.8
19.....	21.8	14.8	22.0	17.9	17.0	11.8	8.5	7.7	7.8	8.4	13.0	16.8
20.....	21.7	14.8	21.8	17.9	16.8	11.6	8.5	7.7	7.8	9.2	14.5	16.3
21.....	21.5	15.2	21.5	18.1	16.8	11.4	8.4	7.6	7.8	13.4	14.2	16.5
22.....	21.2	17.5	21.3	18.2	16.6	11.3	8.4	7.6	7.5	15.1	17.5	19.0
23.....	21.1	17.9	21.2	18.3	16.7	11.2	8.3	7.6	7.5	13.4	18.5	19.8
24.....	20.8	17.9	20.9	18.2	16.2	11.5	8.2	7.5	7.5	12.2	17.4	20.2
25.....	20.6	17.7	20.7	17.8	15.8	11.5	8.2	7.6	7.4	11.3	16.5	20.2
26.....	20.3	17.5	20.5	18.2	15.7	11.3	8.2	7.6	7.4	10.2	15.7	20.2
27.....	20.1	17.5	20.4	17.7	15.4	11.2	8.2	7.5	7.4	10.0	15.9	20.2
28.....	19.8	17.5	20.2	17.2	15.2	10.9	8.1	7.5	7.4	9.8	16.0	19.7
29.....	19.5	.....	19.9	16.9	15.0	10.7	8.1	7.5	7.4	8.2	15.8	19.2
30.....	19.4	.....	19.8	16.8	14.8	10.3	8.1	7.5	7.4	9.6	15.1	19.0
31.....	19.2	.....	19.5	.....	14.5	.....	8.0	7.5	.....	9.6	.....	18.4
Means.	21.9	16.8	20.5	18.3	16.7	12.3	8.9	7.7	7.7	9.9	12.1	16.0

## SACRAMENTO RIVER SYSTEM—SACRAMENTO RIVER, KNIGHTS LANDING, CAL.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	17.8	20.6	24.2	18.9	18.5	17.0	10.8	8.7	7.5	8.2	9.2	18.8
2.....	16.8	20.1	24.2	18.3	18.8	17.0	10.7	8.1	7.5	8.4	8.8	16.0
3.....	16.0	19.8	23.7	18.6	18.9	16.7	10.4	8.0	7.4	8.4	8.6	15.0
4.....	17.8	19.3	23.4	18.6	18.9	16.7	10.4	8.0	7.4	8.3	8.3	16.7
5.....	20.5	19.8	23.3	18.4	18.9	16.3	10.3	8.0	7.4	8.3	8.2	18.4
6.....	21.5	20.8	23.2	18.4	18.9	16.0	10.2	8.0	7.4	8.3	8.2	18.7
7.....	22.1	20.9	23.0	18.4	18.9	15.7	10.1	7.9	7.4	8.2	8.2	18.5
8.....	22.4	20.8	22.8	18.2	19.0	15.5	10.0	7.9	7.4	8.0	8.2	18.5
9.....	22.5	21.0	22.4	17.9	19.0	15.2	9.8	7.9	7.4	8.0	8.2	18.4
10.....	22.2	20.8	22.3	17.6	19.0	14.8	9.8	7.9	7.4	8.0	8.2	18.2
11.....	22.0	20.5	22.3	17.3	18.9	14.3	9.8	7.9	7.3	7.9	8.3	18.0
12.....	21.7	20.2	22.2	17.2	19.0	14.0	9.7	7.9	7.3	7.8	8.5	17.7
13.....	21.5	19.9	22.1	17.2	19.0	13.8	9.5	7.8	7.3	7.7	8.4	16.9
14.....	21.5	19.7	21.9	17.1	19.1	13.5	9.4	7.8	7.3	7.6	8.3	16.2
15.....	21.5	19.7	21.7	17.3	19.2	13.2	9.3	7.8	7.3	7.5	8.3	15.8
16.....	21.5	19.6	21.5	17.4	19.2	13.1	9.2	7.8	7.3	7.5	8.3	14.2
17.....	21.3	19.8	21.3	17.2	19.2	12.9	9.2	7.7	7.3	7.5	8.3	14.8
18.....	21.2	20.6	21.1	17.1	19.2	12.8	9.1	7.7	7.3	7.5	8.8	14.4
19.....	21.0	21.0	20.9	17.1	19.2	12.6	9.1	7.7	7.3	7.5	9.6	14.2
20.....	20.8	21.9	20.7	17.1	18.9	12.5	9.0	7.6	7.3	7.5	9.4	13.8
21.....	20.6	23.0	20.5	17.2	18.9	12.4	9.9	7.6	7.3	7.5	9.2	13.5
22.....	21.0	23.8	20.3	17.2	18.7	12.3	8.8	7.5	7.3	7.5	9.8	13.2
23.....	21.7	24.4	20.2	17.2	18.5	12.1	8.8	7.5	7.3	7.5	10.9	13.0
24.....	21.8	24.8	20.0	17.2	18.2	11.8	8.8	7.5	7.5	7.7	10.6	13.0
25.....	22.0	24.9	19.8	17.1	18.0	11.5	8.8	7.5	8.1	7.7	11.0	12.2
26.....	21.8	24.9	19.8	17.2	17.8	11.3	8.7	7.5	8.5	7.7	12.3	12.2
27.....	21.6	24.8	19.7	17.0	17.7	11.2	8.5	7.5	8.6	7.8	12.6	12.4
28.....	21.4	24.4	19.7	16.9	17.6	11.1	8.3	7.5	8.3	7.8	13.4	12.2
29.....	21.2	.....	19.5	17.1	17.3	11.1	8.3	7.5	8.3	9.2	14.0	12.0
30.....	21.0	.....	19.4	17.7	17.3	11.0	8.3	7.5	8.2	9.7	17.4	11.8
31.....	20.8	.....	19.2	.....	17.2	.....	8.2	7.5	.....	9.6	.....	11.7
<b>Means.</b>	<b>20.9</b>	<b>21.5</b>	<b>21.5</b>	<b>17.6</b>	<b>18.6</b>	<b>13.6</b>	<b>9.4</b>	<b>7.8</b>	<b>7.6</b>	<b>8.0</b>	<b>9.7</b>	<b>15.2</b>
<b>1902</b>												
1.....	11.6	10.4	25.4	18.2	19.9	18.9	12.8	10.1	8.3	7.6	9.5	15.2
2.....	11.6	10.4	24.9	18.8	20.0	18.8	12.8	10.1	8.3	7.6	9.2	14.8
3.....	11.6	10.5	24.2	18.8	19.9	18.7	12.7	10.0	8.2	7.6	9.2	14.4
4.....	12.1	10.7	23.8	18.8	19.8	18.4	12.3	10.0	8.2	7.6	9.0	14.1
5.....	12.2	10.8	23.4	18.9	19.7	18.2	12.0	9.9	8.2	7.6	8.8	13.8
6.....	11.9	11.3	23.0	19.0	19.6	17.8	11.9	9.8	8.2	7.5	8.8	13.8
7.....	11.6	12.8	22.8	19.2	19.5	17.8	11.9	9.7	8.2	7.5	8.8	15.8
8.....	11.5	15.9	22.6	20.2	19.6	17.6	11.8	9.5	8.1	7.5	8.8	15.9
9.....	11.4	18.6	22.5	20.9	19.8	17.7	11.5	9.5	8.0	7.5	9.2	18.0
10.....	11.2	19.2	22.5	21.3	20.8	17.4	11.4	9.4	8.0	7.6	17.2	18.3
11.....	11.2	19.5	22.5	21.6	20.0	17.3	11.2	9.3	7.9	7.6	19.3	19.7
12.....	11.2	20.2	22.6	21.7	20.0	17.2	11.2	9.3	7.9	7.6	19.6	20.3
13.....	11.0	21.3	22.4	21.6	20.1	16.9	11.0	9.2	7.9	7.6	19.1	20.4
14.....	10.9	22.5	22.2	21.4	20.1	16.8	10.9	9.2	7.8	7.6	18.5	20.6
15.....	10.8	23.2	22.0	21.2	20.3	16.6	10.8	9.2	7.8	7.6	18.4	20.3
16.....	10.8	23.5	21.8	21.2	20.6	16.2	10.8	9.2	7.8	7.8	18.4	20.2
17.....	10.7	23.8	21.5	21.1	20.7	16.0	10.6	9.2	7.8	7.8	18.3	20.0
18.....	10.6	23.9	21.2	21.0	20.7	15.6	10.5	9.2	7.8	7.8	18.8	19.1
19.....	10.7	24.0	21.2	21.0	20.3	15.3	10.4	9.2	7.8	7.8	19.3	18.7
20.....	10.8	23.9	21.9	21.0	19.0	14.9	10.3	9.1	7.8	7.8	20.4	18.0
21.....	10.6	23.8	20.7	21.1	19.9	14.7	10.2	9.0	7.8	7.8	20.2	17.8
22.....	10.6	23.8	20.5	21.1	19.8	14.4	10.2	9.0	7.8	7.9	19.8	17.4
23.....	10.8	23.4	20.3	21.1	19.5	14.3	10.0	9.0	7.8	8.2	19.5	17.0
24.....	11.0	23.6	20.3	20.8	19.3	13.9	9.9	8.9	7.8	8.8	19.2	17.8
25.....	11.3	23.6	20.2	20.8	19.5	13.2	10.3	8.8	7.7	9.7	18.7	17.3
26.....	11.8	24.7	20.2	20.4	19.0	13.8	10.4	8.8	7.7	11.0	18.0	17.6
27.....	11.5	26.2	19.8	20.1	19.0	13.7	10.8	8.7	7.7	12.0	17.4	19.7
28.....	11.2	26.0	19.5	20.1	19.0	12.9	10.3	8.7	7.7	11.5	16.8	20.5
29.....	10.9	.....	19.4	20.0	19.2	12.9	10.2	8.5	7.7	10.7	16.2	20.7
30.....	10.8	.....	19.2	19.8	19.2	12.8	10.2	8.5	7.6	10.0	16.0	20.5
31.....	10.5	.....	19.0	.....	18.8	.....	10.2	8.4	.....	9.8	.....	20.2
<b>Means.</b>	<b>11.2</b>	<b>19.7</b>	<b>21.7</b>	<b>20.4</b>	<b>19.8</b>	<b>16.0</b>	<b>11.0</b>	<b>9.2</b>	<b>7.9</b>	<b>8.4</b>	<b>15.7</b>	<b>18.0</b>

## SACRAMENTO RIVER SYSTEM—SACRAMENTO RIVER, KNIGHTS LANDING, CAL.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	20.0	23.7	19.7	23.8	19.9	15.8	10.8	8.6	7.9	7.7	8.0	22.2
2.....	19.7	23.7	19.5	23.9	19.8	15.7	10.8	8.6	7.8	7.9	8.0	21.8
3.....	19.4	23.5	19.4	23.9	19.8	15.7	10.8	8.5	7.8	7.9	8.0	21.2
4.....	18.9	23.3	19.5	23.9	19.8	15.5	10.6	8.4	7.8	8.0	8.1	20.5
5.....	18.4	23.2	19.9	23.7	19.7	15.7	10.4	8.4	7.8	8.0	8.2	19.8
6.....	17.9	22.8	20.0	23.5	19.6	14.8	10.3	8.4	7.8	8.1	8.3	19.0
7.....	17.5	22.4	20.1	23.4	19.7	14.8	10.2	8.3	7.8	8.1	8.3	18.6
8.....	17.1	22.4	19.9	23.2	19.8	14.6	10.2	8.3	7.8	8.1	8.8	18.0
9.....	16.7	22.5	20.2	23.0	19.6	14.4	10.1	8.2	7.8	8.1	8.8	17.1
10.....	16.3	22.3	20.5	22.8	19.3	14.2	10.1	8.2	7.7	8.1	9.0	16.7
11.....	16.1	22.1	20.5	22.8	19.2	14.1	10.0	8.2	7.7	8.1	9.0	16.2
12.....	15.6	22.2	20.3	22.6	19.2	13.9	10.0	8.2	7.7	8.5	8.8	15.8
13.....	15.3	22.1	20.7	22.5	19.1	13.7	9.8	8.2	7.6	9.5	10.5	15.2
14.....	15.3	21.8	21.2	22.3	19.3	13.5	9.7	8.2	7.6	9.3	14.2	15.0
15.....	14.8	21.5	21.8	22.2	19.0	13.2	9.7	8.2	7.6	9.2	16.4	14.8
16.....	14.5	21.2	22.0	22.0	18.8	13.0	9.7	8.1	7.6	8.4	19.8	14.5
17.....	14.5	21.0	22.3	21.8	18.7	12.8	9.5	8.0	7.6	8.2	19.0	15.8
18.....	14.1	20.7	22.7	21.6	18.2	12.5	9.4	8.0	7.6	8.2	16.9	20.1
19.....	14.0	20.7	22.8	21.5	18.0	12.3	9.3	8.0	7.6	8.2	15.2	20.2
20.....	13.8	20.0	22.9	21.4	17.7	12.2	9.2	8.0	7.6	8.1	14.6	20.1
21.....	13.8	19.7	22.8	21.1	17.4	12.1	9.2	8.0	7.6	8.1	20.0	20.0
22.....	13.5	19.5	22.8	20.8	17.1	11.9	9.2	8.0	7.6	8.1	21.6	20.4
23.....	17.8	19.1	22.5	20.7	16.8	11.8	9.1	7.9	7.7	8.0	21.8	20.3
24.....	19.5	19.4	22.3	20.5	16.6	11.7	9.0	7.9	7.7	8.0	22.2	19.9
25.....	20.7	19.8	22.2	20.3	16.3	11.5	9.0	7.9	7.7	8.0	22.8	19.6
26.....	21.0	20.0	22.0	20.5	16.0	11.4	8.9	7.9	7.7	8.0	23.2	19.0
27.....	21.7	19.8	22.0	20.5	15.9	11.2	8.9	7.9	7.7	8.0	23.2	18.4
28.....	22.7	19.8	21.9	20.3	15.8	11.1	8.8	7.9	7.7	8.0	23.1	17.8
29.....	23.3	.....	22.2	20.2	15.8	11.1	8.8	7.9	7.7	8.0	22.9	17.3
30.....	23.6	.....	22.7	20.0	15.8	10.8	8.7	7.9	7.7	8.0	22.7	16.1
31.....	23.7	.....	23.4	.....	15.8	.....	8.7	7.9	.....	8.0	.....	16.5
<b>Means.</b>	<b>17.8</b>	<b>21.4</b>	<b>21.4</b>	<b>22.0</b>	<b>18.2</b>	<b>13.2</b>	<b>9.6</b>	<b>8.1</b>	<b>7.7</b>	<b>8.2</b>	<b>15.0</b>	<b>18.3</b>
<b>1904</b>												
1.....	16.0	14.0	24.9	24.2	22.8	21.2	14.8	11.2	10.8	11.1	12.9	14.1
2.....	16.4	13.8	24.5	24.0	22.8	21.1	14.6	11.1	10.8	11.0	12.9	15.1
3.....	16.7	13.7	24.2	23.9	22.8	21.2	14.4	11.0	10.7	10.9	13.1	15.4
4.....	16.2	13.7	24.0	23.8	22.8	20.9	14.2	11.0	10.7	10.8	13.0	14.8
5.....	16.2	13.8	23.9	23.6	22.7	20.7	14.1	10.9	10.5	10.8	12.9	14.1
6.....	16.2	14.2	23.9	23.5	22.7	20.7	13.9	10.8	10.5	10.7	12.8	13.5
7.....	15.4	14.8	23.9	23.4	22.8	20.4	13.7	10.8	10.5	10.6	12.7	13.0
8.....	15.2	14.8	23.9	23.4	22.6	20.2	13.5	10.8	10.4	10.5	12.6	12.8
9.....	15.0	14.8	23.8	23.3	22.6	19.9	13.4	10.7	10.3	10.4	12.5	12.6
10.....	14.8	14.8	24.0	23.2	22.6	19.8	13.3	10.6	10.2	11.2	12.5	12.4
11.....	14.6	14.5	24.5	23.2	22.6	19.4	13.2	10.5	10.2	14.2	12.3	12.8
12.....	15.0	14.6	25.0	23.2	22.5	19.1	13.2	10.5	10.1	16.9	12.2	13.5
13.....	15.6	19.6	25.3	23.2	22.6	18.8	13.1	10.4	10.0	16.8	12.2	13.4
14.....	15.2	20.8	25.0	23.2	22.6	18.6	13.0	12.0	10.0	16.0	12.2	14.0
15.....	14.9	20.8	24.8	23.3	22.7	18.3	12.8	12.2	10.0	14.8	12.2	14.9
16.....	14.6	21.4	24.3	23.3	22.6	18.2	12.7	12.1	9.9	14.8	12.2	14.9
17.....	14.4	22.5	24.0	23.4	22.6	18.0	12.6	12.1	9.9	14.7	12.4	14.6
18.....	14.8	23.5	24.2	23.3	22.7	17.9	12.6	11.8	9.8	14.2	13.1	14.2
19.....	15.6	23.9	24.8	23.3	22.7	17.8	12.5	11.8	9.8	14.0	12.9	13.7
20.....	18.1	24.2	25.8	23.3	22.5	17.5	12.4	11.8	9.8	13.8	13.2	13.3
21.....	18.2	24.0	26.0	23.2	22.3	17.2	12.3	11.6	9.8	13.8	13.6	13.1
22.....	17.4	23.9	25.5	23.3	22.2	16.9	12.2	11.4	9.8	13.7	13.3	12.8
23.....	15.7	24.1	25.1	23.2	22.2	16.8	12.1	11.3	9.8	13.7	13.0	12.7
24.....	16.2	24.6	24.8	23.2	22.2	16.7	12.0	11.2	10.1	13.6	12.8	12.6
25.....	15.9	25.2	24.3	23.1	22.2	16.2	11.8	11.2	11.9	13.5	12.5	13.3
26.....	15.6	25.8	24.1	22.9	22.2	15.9	11.8	11.2	13.3	13.4	12.2	16.8
27.....	15.8	26.1	23.8	22.8	22.1	15.7	11.7	11.2	12.8	13.2	12.2	17.2
28.....	14.9	25.9	23.7	22.8	22.1	15.2	11.6	11.0	12.0	13.2	12.3	16.2
29.....	14.7	25.5	23.7	22.8	21.8	15.1	11.5	11.0	11.4	13.1	14.6	15.2
30.....	14.4	.....	23.9	22.8	21.6	14.9	11.4	11.0	11.2	13.0	14.7	14.7
31.....	14.2	.....	24.2	.....	21.4	.....	11.2	10.9	.....	12.9	.....	19.9
<b>Means.</b>	<b>15.6</b>	<b>19.7</b>	<b>24.4</b>	<b>23.3</b>	<b>22.4</b>	<b>18.3</b>	<b>12.8</b>	<b>11.2</b>	<b>10.6</b>	<b>13.1</b>	<b>12.8</b>	<b>11.2</b>

## SACRAMENTO RIVER SYSTEM—SACRAMENTO RIVER, SACRAMENTO, CAL.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	21.8	21.4	17.8	21.8	18.3	16.1	10.8	8.3	7.7	7.6	9.3	14.3
2.....	21.8	21.1	17.7	21.6	18.3	15.8	10.6	8.2	7.7	7.6	9.5	13.8
3.....	23.2	20.8	17.4	21.8	18.3	15.5	10.4	8.2	7.7	7.6	10.0	13.5
4.....	24.2	20.3	18.0	22.0	18.5	15.4	10.2	8.1	7.7	7.6	10.0	13.5
5.....	24.8	20.3	18.9	21.5	18.9	15.3	10.2	8.1	7.7	8.0	9.9	13.5
6.....	25.5	19.8	18.9	21.2	19.0	15.0	10.2	8.0	7.7	8.6	9.7	13.3
7.....	25.8	20.0	18.6	21.2	19.0	14.8	10.1	8.0	7.7	9.6	9.4	13.3
8.....	26.5	18.9	19.6	21.0	19.0	14.4	10.0	7.9	7.7	12.0	9.2	13.0
9.....	<sup>a</sup> 26.6	18.5	20.6	21.0	19.0	14.3	9.8	7.9	7.7	10.6	9.5	13.0
10.....	26.6	18.1	20.8	20.8	19.2	14.3	9.8	7.9	7.9	9.6	9.5	12.8
11.....	26.8	17.7	21.0	20.4	19.3	14.0	9.8	7.9	7.9	9.3	9.3	12.5
12.....	26.6	17.2	21.5	20.2	19.3	13.7	9.6	7.9	7.9	8.9	9.0	12.5
13.....	26.4	16.8	22.0	20.2	19.3	13.3	9.5	7.9	7.8	8.6	8.9	12.0
14.....	26.1	16.5	22.5	20.2	19.0	13.3	9.4	7.9	7.8	8.6	8.9	12.0
15.....	25.9	16.3	22.8	20.2	19.0	13.3	9.4	7.9	7.8	8.5	8.8	12.2
16.....	25.7	16.3	23.0	20.0	19.0	13.0	9.3	7.9	7.8	8.5	8.8	12.5
17.....	25.4	16.2	23.2	19.8	19.0	12.8	9.1	7.8	7.8	8.4	9.5	14.9
18.....	25.1	16.0	23.3	19.8	19.0	12.6	8.9	7.8	7.8	8.4	11.0	15.2
19.....	24.8	15.8	23.4	19.6	19.3	12.5	8.8	7.8	7.8	8.4	12.0	15.2
20.....	24.5	15.5	23.5	19.6	19.4	12.3	8.8	7.8	7.8	9.4	13.3	14.8
21.....	24.3	16.3	23.4	19.9	19.0	12.3	8.7	7.8	7.8	13.4	14.5	14.8
22.....	24.0	16.8	23.4	20.0	18.8	12.0	8.6	7.8	7.8	13.5	19.5	18.8
23.....	23.8	17.5	23.4	20.0	18.6	11.9	8.6	7.8	7.8	12.5	18.9	18.8
24.....	23.5	17.5	23.2	19.6	18.0	11.7	8.6	7.8	7.8	11.5	17.9	18.8
25.....	23.3	17.5	23.0	19.4	18.0	11.7	8.6	7.8	7.7	10.8	17.0	19.0
26.....	23.3	17.5	23.0	19.5	17.8	11.5	8.6	7.8	7.7	10.3	16.0	19.4
27.....	22.8	17.8	22.9	19.8	17.5	11.4	8.6	7.8	7.7	9.8	16.0	19.5
28.....	22.5	17.8	22.6	18.8	17.3	11.3	8.4	7.8	7.7	9.5	15.5	19.2
29.....	22.3	.....	22.5	18.6	17.0	11.2	8.4	7.8	7.6	9.4	15.2	19.0
30.....	21.9	.....	22.3	18.5	16.9	11.0	8.4	7.8	7.6	9.2	15.0	18.7
31.....	21.7	.....	22.0	.....	16.5	.....	8.3	7.7	.....	9.0	.....	18.4
Means.	24.4	17.9	21.5	20.3	18.5	13.3	9.3	7.9	7.8	9.5	12.0	15.2
1901												
1.....	17.7	22.0	27.0	21.0	20.1	20.2	12.3	8.5	7.6	8.3	9.5	16.9
2.....	17.0	21.8	27.3	20.8	20.1	20.0	12.2	8.4	7.6	8.6	9.2	15.0
3.....	16.0	21.5	26.5	20.7	20.2	19.8	12.0	8.4	7.5	8.5	8.9	14.9
4.....	16.0	21.0	26.0	20.7	20.4	19.7	11.8	8.4	7.5	8.4	8.5	<sup>b</sup> 18.6
5.....	19.8	21.6	25.7	20.7	20.6	19.6	11.4	8.2	7.5	8.3	8.4	18.9
6.....	22.0	22.2	25.4	20.7	20.6	19.2	11.1	8.1	7.5	8.3	8.3	19.4
7.....	22.4	22.2	25.1	20.5	20.8	18.8	10.7	8.1	7.5	8.2	8.2	18.5
8.....	21.5	22.2	24.8	20.3	21.0	18.6	10.7	8.3	7.5	8.0	8.1	18.3
9.....	21.8	22.4	24.3	20.0	21.1	18.0	10.6	8.3	7.4	8.0	8.1	18.2
10.....	22.0	22.3	24.0	19.7	21.2	17.5	10.5	8.3	7.4	8.3	8.2	18.2
11.....	22.4	22.3	24.3	19.4	21.3	16.9	10.5	8.3	7.4	7.9	8.6	18.1
12.....	22.4	22.2	23.9	19.2	21.4	16.4	10.4	8.1	7.4	7.8	8.7	18.0
13.....	22.6	22.0	23.8	19.2	21.6	16.0	10.2	8.1	7.4	7.7	8.7	17.1
14.....	22.6	21.8	23.5	19.2	21.8	15.5	10.2	8.1	7.4	7.6	8.5	16.6
15.....	22.6	21.6	23.3	19.5	22.0	15.3	10.0	8.1	7.4	7.7	8.4	16.0
16.....	22.7	21.4	23.1	19.7	22.0	15.0	10.0	8.1	7.4	7.7	8.3	15.7
17.....	22.6	21.3	22.9	19.4	22.0	14.8	9.9	7.9	7.4	7.6	8.4	15.2
18.....	22.5	22.3	22.8	19.1	22.2	14.7	9.8	7.9	7.3	7.6	8.5	14.9
19.....	22.4	22.6	22.5	19.1	22.0	14.5	9.7	7.7	7.3	7.6	9.0	14.5
20.....	22.2	24.6	22.4	19.1	22.0	14.5	9.7	7.7	7.3	7.6	9.0	14.1
21.....	22.2	25.6	22.3	19.1	22.0	14.3	9.6	7.7	7.2	7.5	9.1	13.8
22.....	22.4	26.1	22.1	19.1	21.9	14.1	9.4	7.7	7.2	7.7	9.3	13.5
23.....	22.4	26.9	22.0	19.2	21.7	14.0	9.3	7.6	7.4	7.6	10.0	13.3
24.....	22.4	27.9	22.0	19.3	21.6	13.6	9.2	7.6	7.6	7.6	10.2	13.0
25.....	22.5	28.2	21.7	19.3	21.2	13.2	9.1	7.6	7.6	7.7	10.3	12.8
26.....	22.4	28.0	21.7	19.8	21.0	12.9	9.0	7.6	7.5	7.6	11.1	12.6
27.....	22.2	27.7	21.6	19.8	20.9	12.6	8.9	7.6	8.5	7.7	12.0	12.6
28.....	22.3	27.4	21.6	19.5	20.7	12.5	8.8	7.7	8.5	8.9	12.3	12.2
29.....	22.2	.....	21.6	19.5	20.4	12.5	8.7	7.7	8.4	10.5	12.3	12.0
30.....	22.2	.....	21.5	20.3	20.3	12.4	8.6	7.7	8.2	10.7	14.6	11.9
31.....	22.2	.....	21.3	.....	20.2	.....	8.5	7.7	.....	10.0	.....	11.6
Means.	21.5	23.5	23.5	19.8	21.2	15.9	10.1	8.0	7.6	8.2	9.4	15.4

<sup>a</sup> 27.0 feet at 6 a. m.<sup>b</sup> 20.5 at 11 p. m.

## DESCRIPTION OF RIVER GAGES, ETC.

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## SACRAMENTO RIVER SYSTEM—SACRAMENTO RIVER, SACRAMENTO, CAL.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	11.5	9.8	28.2	20.4	21.4	20.8	13.3	9.7	7.9	7.1	8.7	13.9
2.....	11.4	10.1	28.0	20.4	21.4	20.9	13.0	9.6	7.9	7.1	8.5	13.7
3.....	11.5	10.0	27.5	20.3	21.3	20.8	12.8	9.5	7.8	7.1	8.3	13.5
4.....	12.0	10.0	26.7	20.2	21.3	20.7	12.7	9.4	7.8	7.2	8.2	12.6
5.....	12.0	10.3	26.7	20.1	21.2	20.5	12.6	9.4	7.7	7.1	8.1	12.6
6.....	11.7	10.3	25.4	20.0	21.1	20.3	12.5	9.3	7.7	6.9	8.1	12.6
7.....	11.4	11.3	25.2	20.2	21.2	20.2	12.3	9.2	7.6	6.9	8.2	13.7
8.....	11.3	15.5	24.5	21.1	21.3	20.1	12.0	9.0	7.6	6.9	8.2	13.8
9.....	11.2	17.4	24.0	21.3	21.4	20.1	11.8	8.9	7.5	7.0	8.3	14.7
10.....	11.0	18.6	24.3	21.4	21.5	20.0	11.7	8.8	7.5	7.0	10.2	15.4
11.....	10.9	18.5	23.9	21.4	21.5	19.8	11.5	8.7	7.5	7.0	15.2	16.6
12.....	10.8	19.0	23.7	21.7	21.5	19.6	11.3	8.6	7.5	7.0	15.9	18.1
13.....	10.7	20.0	23.5	21.7	21.6	19.4	11.2	8.6	7.5	7.0	14.9	17.6
14.....	10.6	20.4	23.3	21.7	21.7	19.2	11.0	8.5	7.5	7.1	14.2	17.8
15.....	10.5	20.8	23.1	21.8	21.8	19.0	10.9	8.5	7.5	7.1	14.1	17.6
16.....	10.4	21.6	22.9	21.9	21.7	18.7	10.7	8.5	7.5	7.2	14.1	17.5
17.....	10.4	21.5	22.6	22.0	21.7	18.4	10.6	8.5	7.4	7.2	14.3	17.3
18.....	10.3	21.8	22.4	22.0	21.8	17.9	10.6	8.5	7.4	7.1	14.9	17.2
19.....	10.4	21.7	22.1	22.2	21.8	17.4	10.4	8.5	7.4	7.1	15.9	16.8
20.....	10.3	22.0	21.9	22.4	21.3	17.0	10.3	8.5	7.4	7.1	16.9	16.4
21.....	10.3	22.4	21.9	22.3	21.1	16.6	10.0	8.4	7.2	7.2	16.9	16.0
22.....	10.3	22.9	21.8	22.1	21.0	16.2	9.7	8.4	7.2	7.3	16.5	15.7
23.....	10.2	24.0	21.7	22.0	21.0	15.9	9.6	8.3	7.2	7.5	16.5	15.5
24.....	10.3	23.6	21.5	22.0	21.0	15.6	9.7	8.2	7.5	8.0	16.4	15.5
25.....	10.5	23.4	21.1	21.9	21.0	15.2	9.9	8.1	7.4	8.7	16.2	15.3
26.....	10.5	25.4	21.5	21.8	21.0	14.9	9.9	8.1	7.3	9.5	15.9	15.5
27.....	10.6	26.3	21.0	21.7	21.1	14.6	9.8	8.0	7.3	10.3	15.4	17.9
28.....	10.4	27.6	20.9	21.6	21.1	14.4	9.8	8.0	7.3	10.3	14.7	18.0
29.....	10.2	.....	20.9	21.6	21.2	14.0	9.8	8.0	7.2	9.8	14.7	18.0
30.....	10.0	.....	20.7	21.5	21.0	13.6	9.7	8.0	7.2	9.4	14.3	17.9
31.....	9.8	.....	20.5	.....	20.8	.....	9.7	7.9	.....	9.0	.....	17.7
<b>Means.</b>	<b>10.8</b>	<b>18.8</b>	<b>23.3</b>	<b>21.4</b>	<b>21.3</b>	<b>18.1</b>	<b>11.0</b>	<b>8.6</b>	<b>7.5</b>	<b>7.7</b>	<b>13.1</b>	<b>15.9</b>
<b>1903</b>												
1.....	17.5	22.6	18.6	26.6	21.3	17.9	11.7	8.0	7.3	7.0	7.3	19.6
2.....	17.5	23.2	18.5	27.4	21.4	17.9	11.7	8.0	7.3	7.1	7.3	19.6
3.....	17.4	22.8	18.3	27.5	21.3	17.9	11.3	8.0	7.3	7.2	7.4	19.3
4.....	17.3	23.0	18.5	27.6	21.3	17.6	11.0	8.0	7.3	7.2	7.4	19.1
5.....	17.0	22.9	18.5	27.2	21.3	17.5	10.8	8.0	7.3	7.4	7.5	18.9
6.....	16.9	22.7	18.6	26.4	21.3	17.0	10.6	7.9	7.3	7.4	7.7	18.7
7.....	16.6	22.5	18.5	25.9	21.4	16.7	10.4	7.8	7.2	7.4	7.8	18.4
8.....	16.3	22.5	18.6	25.5	21.4	16.7	10.2	7.8	7.1	7.4	8.0	18.0
9.....	16.0	22.4	18.8	24.9	21.4	16.5	10.1	7.8	7.0	7.6	7.9	17.5
10.....	15.7	22.1	18.8	24.9	21.4	16.0	10.0	7.8	7.0	7.4	8.0	17.0
11.....	15.3	21.9	18.8	24.7	21.3	15.9	9.9	7.7	7.0	7.4	8.0	16.5
12.....	15.0	22.1	18.9	24.5	21.2	15.7	9.6	7.6	7.0	7.3	8.0	15.9
13.....	14.7	22.0	18.9	24.0	21.2	15.3	9.6	7.6	7.0	8.3	14.6	15.6
14.....	14.3	21.5	19.3	23.7	21.5	15.0	9.5	7.6	7.0	8.5	18.0	15.1
15.....	14.0	21.3	19.7	23.5	21.3	14.7	9.3	7.5	7.0	8.7	19.5	14.9
16.....	13.7	21.0	19.8	23.3	21.3	14.3	9.3	7.5	7.0	7.9	17.8	14.3
17.....	13.5	20.8	19.8	23.0	21.5	13.7	9.1	7.4	7.0	7.6	17.3	14.9
18.....	13.3	20.5	20.4	22.7	21.5	13.5	9.0	7.4	7.0	7.4	16.0	15.3
19.....	13.0	20.3	20.5	22.6	20.2	13.3	8.8	7.5	7.1	7.5	15.5	17.3
20.....	12.8	20.0	20.7	22.3	19.8	13.2	8.7	7.5	7.1	7.5	13.7	17.3
21.....	12.8	19.7	20.9	22.2	19.7	13.0	8.7	7.5	7.2	7.5	19.7	17.3
22.....	12.6	19.5	20.8	22.0	19.2	13.0	8.6	7.5	7.2	7.5	20.5	17.3
23.....	12.8	19.3	21.0	21.9	18.9	12.7	8.6	7.5	7.2	7.4	19.9	17.5
24.....	16.2	19.2	21.0	21.8	18.5	12.4	8.5	7.5	7.2	7.3	19.8	17.4
25.....	20.5	19.1	21.1	21.5	18.3	12.4	8.5	7.5	7.1	7.4	19.9	17.3
26.....	19.8	19.0	21.2	21.5	17.7	12.4	8.4	7.3	7.0	7.3	20.0	17.3
27.....	21.0	18.7	21.3	21.0	17.7	12.2	8.3	7.3	7.0	7.3	20.0	17.2
28.....	23.2	18.7	22.1	21.5	17.6	12.0	8.3	7.3	7.1	7.4	20.0	16.6
29.....	21.8	.....	23.0	21.4	17.5	11.8	8.3	7.3	7.0	7.4	20.0	16.4
30.....	21.5	.....	24.0	21.3	17.3	11.7	8.2	7.3	7.0	7.3	19.8	16.0
31.....	22.1	.....	25.1	.....	18.0	.....	8.2	7.2	.....	7.3	.....	15.4
<b>Means.</b>	<b>16.5</b>	<b>21.1</b>	<b>20.1</b>	<b>23.8</b>	<b>20.2</b>	<b>14.7</b>	<b>9.5</b>	<b>7.6</b>	<b>7.1</b>	<b>7.5</b>	<b>14.1</b>	<b>17.1</b>

## SACRAMENTO RIVER SYSTEM—SACRAMENTO RIVER, SACRAMENTO, CAL.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	15.4	13.1	25.2	24.0	20.8	20.4	15.6	10.3	9.0	9.7	11.1	11.8
2.....	15.8	13.0	24.7	23.8	21.0	20.3	15.3	10.2	9.0	9.6	11.2	12.0
3.....	15.6	13.0	24.3	23.5	20.8	20.9	14.9	10.1	8.9	9.5	11.6	12.5
4.....	15.2	12.8	24.0	23.4	20.9	20.5	14.6	10.1	8.9	9.5	11.6	12.2
5.....	15.2	12.9	23.7	23.0	21.1	20.1	14.4	10.0	8.9	9.3	11.5	11.9
6.....	15.0	13.5	23.4	22.9	21.3	20.1	14.2	10.0	8.8	9.2	11.2	11.5
7.....	14.7	13.5	23.2	22.6	21.0	20.2	14.0	10.0	8.8	9.2	11.0	11.2
8.....	14.4	13.8	22.9	22.3	21.5	19.9	13.8	9.8	8.7	9.2	11.0	11.0
9.....	14.1	13.8	23.1	22.2	21.5	19.7	13.5	9.7	8.7	10.5	10.9	10.9
10.....	13.8	13.6	21.8	22.0	21.7	19.7	13.5	9.6	8.7	11.1	10.8	10.8
11.....	13.7	13.5	23.4	22.0	21.7	19.6	13.2	9.6	8.6	11.9	10.7	10.8
12.....	14.2	13.4	23.6	22.0	21.7	19.5	13.0	9.5	8.6	18.0	10.6	11.2
13.....	14.4	20.8	23.8	22.2	21.9	19.3	12.9	9.4	8.6	16.4	10.6	11.1
14.....	14.2	19.2	23.8	22.2	22.0	19.1	12.7	9.6	8.5	15.3	10.5	11.2
15.....	13.9	18.8	24.0	22.2	22.2	19.0	12.5	10.0	8.4	14.0	10.4	11.8
16.....	13.6	20.5	23.9	22.2	21.8	19.1	12.3	10.0	8.4	13.3	10.6	11.8
17.....	13.5	22.0	23.3	22.2	21.5	19.0	12.1	9.9	8.4	13.1	10.9	11.8
18.....	13.6	21.4	24.1	21.9	21.6	18.9	12.1	9.8	8.4	12.6	10.9	11.5
19.....	14.2	21.4	24.3	21.8	21.6	18.8	12.0	9.8	8.4	12.3	11.1	11.3
20.....	15.0	21.6	25.7	22.0	21.2	18.6	11.9	9.7	8.3	12.1	11.0	11.1
21.....	15.0	21.9	26.2	21.8	21.1	18.3	11.8	9.6	8.2	12.1	11.1	10.9
22.....	15.0	22.2	26.3	21.8	21.3	18.2	11.6	9.6	8.2	11.9	11.0	10.9
23.....	14.6	25.0	26.0	21.6	21.3	18.0	11.5	9.4	8.2	11.8	11.0	10.8
24.....	14.5	25.3	25.5	21.4	21.2	17.8	11.4	9.4	8.7	11.7	10.8	10.8
25.....	14.5	27.2	25.0	21.3	21.2	17.4	11.3	9.3	9.9	11.7	10.7	10.6
26.....	14.1	27.9	24.6	21.0	21.2	17.0	11.1	9.3	12.0	11.6	10.5	12.7
27.....	13.9	27.7	24.1	21.2	20.6	16.7	11.0	9.3	11.9	11.5	10.5	13.2
28.....	13.7	26.8	23.5	21.1	20.6	16.3	10.9	9.3	11.1	11.4	10.5	12.8
29.....	13.6	26.0	24.3	21.0	20.6	15.9	10.8	9.2	10.5	11.3	11.2	12.3
30.....	13.4	.....	24.4	20.8	20.6	15.8	10.6	9.1	10.0	11.1	12.0	12.0
31.....	13.3	.....	24.2	.....	20.5	.....	10.5	9.0	.....	11.0	.....	17.0
Means.	14.4	19.2	24.2	22.1	21.3	18.8	12.6	9.7	9.1	11.7	11.0	11.7

## SAN JOAQUIN RIVER SYSTEM—SAN JOAQUIN RIVER, HERNDON, CAL.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	4.8	3.2	3.2	4.8	4.5	7.2	5.2	3.0	2.5	2.4	2.7	3.8
2.....	4.8	3.2	3.3	5.0	4.4	7.4	5.0	3.0	2.5	2.4	2.7	3.8
3.....	11.5	3.2	3.3	4.7	4.5	7.2	4.8	3.0	2.5	2.3	2.6	3.8
4.....	10.0	3.2	3.5	4.4	5.4	7.0	4.2	3.0	2.4	2.3	2.6	3.8
5.....	5.7	3.1	4.2	4.2	5.0	6.8	4.2	3.0	2.4	2.8	2.6	3.8
6.....	4.9	3.1	3.9	4.3	5.2	6.8	4.2	3.0	2.4	3.3	2.5	3.7
7.....	4.4	3.0	3.9	4.2	5.0	7.2	4.1	2.8	2.5	3.0	2.5	3.7
8.....	4.2	3.0	3.8	4.8	5.2	7.4	4.3	2.8	2.5	2.8	2.5	3.7
9.....	4.1	3.0	3.8	4.4	5.5	7.5	4.2	2.8	2.5	2.8	2.5	3.8
10.....	3.9	3.0	3.8	4.2	6.2	7.4	4.0	2.8	2.5	2.8	2.5	3.8
11.....	3.8	3.0	4.0	4.3	6.2	6.8	4.0	2.8	2.4	2.8	2.7	3.8
12.....	3.8	3.0	4.0	4.2	6.3	6.5	4.0	2.8	2.4	2.8	2.7	3.8
13.....	3.7	3.0	4.1	4.2	5.5	6.3	4.0	2.8	2.4	2.8	2.7	3.6
14.....	3.7	3.0	4.5	4.2	5.2	6.2	3.8	2.8	2.4	2.8	2.6	3.6
15.....	3.7	3.0	4.5	4.2	5.2	6.0	3.8	2.7	2.4	2.8	2.6	3.6
16.....	3.7	3.0	4.6	4.1	6.2	5.8	3.8	2.7	2.4	2.8	2.6	3.5
17.....	3.7	3.0	4.5	4.0	7.5	5.5	3.6	2.7	2.4	2.8	2.8	3.5
18.....	3.7	2.9	4.5	4.2	7.4	5.7	3.6	2.7	2.4	2.8	4.0	3.5
19.....	3.7	3.2	4.5	4.2	7.9	5.7	3.6	2.6	2.4	2.8	3.5	3.5
20.....	3.7	3.2	4.5	4.8	7.8	5.5	3.5	2.6	2.3	2.8	3.8	3.5
21.....	3.7	3.2	4.5	5.1	7.2	6.2	3.5	2.6	2.3	3.2	5.5	3.5
22.....	3.5	3.2	4.4	4.7	7.8	6.2	3.5	2.6	2.3	3.2	11.0	3.5
23.....	3.5	3.1	4.5	4.7	8.2	6.1	3.5	2.6	2.3	3.0	6.2	3.5
24.....	3.4	3.0	4.3	4.5	7.4	5.8	3.5	2.6	2.3	3.0	5.5	3.5
25.....	3.3	3.0	4.2	4.5	7.0	5.8	3.2	2.6	2.3	3.0	4.7	3.3
26.....	3.3	3.0	4.2	4.5	7.2	5.6	3.2	2.5	2.3	2.8	4.4	3.3
27.....	3.3	3.0	4.2	4.4	7.3	5.5	3.1	2.5	2.3	2.8	4.2	3.4
28.....	3.3	3.0	4.2	4.2	7.3	5.5	3.1	2.5	2.3	2.7	4.0	3.4
29.....	3.3	.....	4.2	4.2	7.1	5.5	3.0	2.5	2.3	2.7	3.9	3.3
30.....	3.3	.....	4.3	4.2	7.2	5.3	3.0	2.5	2.4	2.6	3.8	3.3
31.....	3.2	.....	4.3	.....	7.5	.....	3.0	2.5	.....	2.7	.....	3.3
Means.	4.3	3.1	4.1	4.4	6.4	6.3	3.8	2.7	2.4	2.8	3.6	3.6



## SAN JOAQUIN RIVER SYSTEM—SAN JOAQUIN RIVER, HERNDON, CAL.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	3.3	4.0	6.8	4.6	7.5	8.0	9.8	5.5	2.8	2.2	3.1	4.1
2.....	3.2	4.0	7.0	4.5	7.3	9.5	10.0	5.9	2.8	2.4	3.1	3.9
3.....	3.2	4.0	6.9	5.0	6.8	10.2	8.8	6.1	2.8	2.5	3.0	3.8
4.....	3.2	4.0	6.8	5.2	7.2	10.5	8.0	5.7	2.8	2.5	3.0	3.7
5.....	6.2	4.0	6.5	4.8	6.9	10.3	7.8	6.5	2.7	2.5	3.0	3.5
6.....	11.2	6.4	6.3	4.3	7.2	10.4	7.5	6.5	2.6	2.5	2.8	4.0
7.....	12.6	5.0	6.4	4.7	7.2	10.4	7.5	5.9	2.6	2.4	2.8	4.4
8.....	7.5	5.2	6.4	4.5	8.8	10.2	7.2	5.6	2.5	2.3	2.8	4.0
9.....	6.3	5.5	6.4	4.4	8.5	10.0	7.4	5.3	2.5	2.3	2.8	3.9
10.....	5.6	4.8	5.5	4.3	9.2	9.0	7.2	5.3	2.5	2.3	2.9	3.0
11.....	5.2	4.4	5.5	4.3	10.5	8.5	7.2	4.8	2.5	2.3	3.0	3.5
12.....	5.0	4.3	5.5	4.3	10.7	8.2	7.1	4.5	2.5	2.2	3.2	3.5
13.....	4.8	4.2	5.6	4.3	10.8	7.9	7.2	4.3	2.5	2.2	3.2	3.5
14.....	4.8	4.2	5.2	4.3	10.7	7.5	6.9	4.2	2.5	2.2	3.3	3.3
15.....	4.5	4.2	5.2	5.8	10.9	7.4	6.8	4.2	2.4	2.2	3.4	3.2
16.....	4.4	4.4	5.2	5.5	11.4	8.2	6.7	4.2	2.4	2.2	3.4	3.0
17.....	4.2	4.6	5.2	5.8	11.4	8.5	6.5	4.0	2.4	2.2	3.3	3.0
18.....	4.2	8.0	5.2	5.8	11.2	9.2	6.4	4.2	2.4	2.2	3.2	3.0
19.....	4.2	7.5	5.2	6.3	10.6	9.5	6.4	4.5	2.4	2.2	3.2	3.0
20.....	4.2	8.9	5.2	6.8	9.5	9.3	6.2	4.3	2.3	2.2	3.2	3.0
21.....	4.1	7.8	5.3	7.0	8.8	9.5	6.2	4.2	2.3	2.2	3.2	2.9
22.....	4.9	8.5	5.3	7.0	8.8	10.0	6.2	3.8	2.2	2.2	3.0	2.9
23.....	4.4	7.2	5.5	7.2	8.2	9.9	6.3	3.7	2.2	2.2	3.0	2.8
24.....	4.1	8.8	5.3	7.3	8.0	9.3	6.5	3.7	2.2	2.2	3.0	2.8
25.....	4.0	7.5	5.3	7.5	8.0	8.5	6.3	3.5	2.2	2.3	3.0	2.8
26.....	4.2	6.9	5.4	7.5	7.8	7.8	6.0	3.3	2.3	2.3	3.0	2.8
27.....	4.0	6.8	5.4	7.5	7.5	7.5	5.8	3.1	2.3	2.2	3.2	2.8
28.....	4.0	6.5	5.2	7.5	7.2	8.5	5.8	3.0	2.2	4.8	3.2	2.8
29.....	4.0	.....	4.9	7.0	7.0	9.6	5.8	3.0	2.2	3.8	3.2	2.8
30.....	4.0	.....	4.8	9.4	7.2	10.2	5.6	2.8	2.2	3.3	4.0	2.8
31.....	4.0	.....	4.8	.....	7.5	.....	5.7	2.8	.....	3.2	.....	2.8
<b>Means.</b>	<b>5.0</b>	<b>5.8</b>	<b>5.7</b>	<b>5.8</b>	<b>8.7</b>	<b>9.1</b>	<b>6.9</b>	<b>4.5</b>	<b>2.4</b>	<b>2.5</b>	<b>3.1</b>	<b>3.3</b>
<b>1902</b>												
1.....	2.7	2.5	4.8	4.2	6.0	8.5	5.8	3.5	3.0	2.8	2.6	2.7
2.....	2.7	2.5	4.5	4.4	6.2	7.5	5.7	3.5	3.0	2.8	2.6	2.7
3.....	2.7	2.5	5.6	4.2	6.2	7.5	5.5	3.5	3.0	2.8	2.6	2.7
4.....	2.7	2.5	4.3	4.2	5.7	7.0	5.0	3.5	2.9	2.8	2.6	2.7
5.....	2.6	2.5	4.0	4.4	5.5	7.2	4.5	3.4	2.9	2.8	2.5	2.7
6.....	2.6	2.5	3.7	4.5	6.0	7.8	4.3	3.4	2.9	2.7	2.5	2.6
7.....	2.6	2.5	3.5	6.7	6.5	8.0	4.2	3.4	2.9	2.7	2.5	2.6
8.....	2.6	2.5	4.0	8.0	6.7	8.5	4.2	3.4	2.8	2.7	2.5	2.6
9.....	2.6	2.5	4.0	7.0	6.7	9.0	4.1	3.4	2.8	2.7	2.5	2.6
10.....	2.5	2.5	4.7	6.5	6.8	8.8	4.1	3.8	2.8	2.7	2.5	2.6
11.....	2.5	2.5	4.3	6.2	7.0	8.5	4.0	3.7	2.8	2.7	4.2	3.3
12.....	2.5	2.5	4.0	5.7	7.6	9.3	4.5	3.7	2.8	2.7	3.8	4.0
13.....	2.5	2.5	4.0	5.5	7.8	9.0	4.5	3.6	2.8	2.7	3.7	3.5
14.....	2.5	2.7	3.8	6.0	7.4	8.5	4.5	3.5	2.8	2.7	3.4	3.3
15.....	2.5	2.7	3.8	6.2	6.9	8.1	4.6	3.5	2.8	2.6	3.3	3.3
16.....	2.5	2.6	3.8	6.2	6.4	7.8	4.2	3.5	2.8	2.6	3.2	3.3
17.....	2.5	2.8	3.7	6.4	6.7	7.5	4.0	3.3	2.8	2.6	3.1	3.2
18.....	2.5	2.7	3.7	6.5	7.1	7.5	4.0	3.3	2.8	2.6	2.8	3.2
19.....	2.5	2.8	3.7	7.8	6.6	7.2	4.0	3.2	2.8	2.6	2.8	3.2
20.....	2.5	2.8	3.8	7.2	6.5	7.1	4.0	3.2	2.8	2.5	2.8	3.2
21.....	2.5	2.8	3.8	7.0	6.2	7.0	4.0	3.2	2.8	2.5	2.8	3.2
22.....	2.5	2.8	3.7	6.5	6.0	7.4	4.2	3.2	2.8	2.5	2.8	3.2
23.....	2.5	3.0	3.7	5.7	6.0	7.0	3.8	3.2	2.8	2.5	2.8	3.2
24.....	2.5	3.0	3.7	5.5	6.5	7.0	3.8	3.2	2.8	2.5	2.8	3.2
25.....	2.6	4.5	3.7	5.2	6.8	7.0	3.8	3.2	2.8	2.5	2.8	3.2
26.....	2.6	5.0	3.7	5.1	7.2	6.8	3.8	3.2	2.8	2.5	2.8	3.2
27.....	2.6	4.8	3.6	5.0	7.7	6.5	3.7	3.1	2.8	2.8	2.7	3.0
28.....	2.5	5.0	3.6	5.0	8.2	6.3	3.7	3.1	2.8	2.8	2.7	3.0
29.....	2.5	.....	3.6	5.0	8.3	6.0	3.6	3.0	2.8	2.7	2.7	3.0
30.....	2.5	.....	3.6	5.0	8.6	6.0	3.6	3.0	2.8	2.7	2.7	3.0
31.....	2.5	.....	4.0	.....	8.8	.....	3.6	3.0	.....	2.7	.....	3.0
<b>Means.</b>	<b>2.6</b>	<b>2.9</b>	<b>3.9</b>	<b>5.8</b>	<b>6.9</b>	<b>7.6</b>	<b>4.2</b>	<b>3.3</b>	<b>2.8</b>	<b>2.7</b>	<b>2.9</b>	<b>3.0</b>

## SAN JOAQUIN RIVER SYSTEM, SAN JOAQUIN RIVER, HERNDON, CAL.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	3.0	4.0	3.3	7.0	7.0	9.0	6.0	2.0	2.0	2.0	2.0	2.3
2.....	3.0	4.5	3.3	7.0	7.2	9.0	6.0	2.0	2.0	2.0	2.0	2.3
3.....	3.0	4.2	3.3	6.0	7.3	8.8	6.4	2.0	2.0	2.0	2.0	2.3
4.....	3.0	3.8	3.3	5.4	7.7	8.5	6.4	2.0	2.0	2.0	2.0	2.2
5.....	3.0	3.8	3.5	5.2	8.0	8.3	6.4	2.0	2.0	2.0	2.0	2.2
6.....	3.0	3.7	3.5	5.0	7.6	8.3	4.5	2.0	2.0	2.0	2.0	2.2
7.....	3.0	3.6	3.4	5.0	8.2	8.5	4.5	2.0	2.0	2.0	2.0	2.2
8.....	3.0	3.5	3.4	5.0	8.3	8.0	4.0	2.0	2.0	2.0	2.0	2.2
9.....	2.9	3.7	3.4	5.0	8.8	7.8	4.0	2.0	2.0	2.0	2.0	2.2
10.....	2.9	3.8	3.4	5.8	9.0	7.7	4.0	2.0	2.0	2.0	2.2	2.2
11.....	2.9	3.7	3.4	6.2	9.5	8.2	4.0	2.0	2.0	2.0	2.2	2.2
12.....	2.9	3.5	3.3	5.4	10.0	7.8	4.0	2.0	2.0	2.0	2.1	2.2
13.....	2.9	3.5	3.3	5.0	10.0	7.2	4.0	2.0	2.0	2.0	2.0	2.2
14.....	2.9	3.5	3.3	5.0	9.7	7.0	4.0	2.0	2.0	2.0	2.0	2.2
15.....	2.9	3.5	3.3	4.8	9.2	7.0	4.0	2.0	2.0	2.0	2.3	2.2
16.....	2.8	3.5	3.3	4.7	8.8	6.8	4.0	2.0	2.0	2.0	2.2	2.2
17.....	2.8	3.5	3.5	4.5	8.2	6.4	4.0	2.0	2.0	2.0	2.2	2.2
18.....	2.8	3.5	3.6	4.2	8.0	6.0	3.5	2.0	2.0	2.0	2.2	2.2
19.....	2.8	3.5	3.6	4.2	7.0	6.2	3.5	2.0	2.0	2.0	2.2	2.2
20.....	2.8	3.5	3.6	4.2	6.8	6.2	3.5	2.0	2.0	2.0	2.2	2.2
21.....	2.8	3.5	3.5	4.2	6.5	6.3	3.5	2.0	2.0	2.0	2.2	2.2
22.....	2.8	3.4	3.5	4.2	6.5	6.7	3.5	2.0	2.0	2.0	2.4	2.2
23.....	2.8	3.4	3.5	5.5	6.0	6.5	2.5	2.0	2.0	2.0	2.5	2.2
24.....	2.8	3.3	3.7	6.2	5.8	6.5	2.3	2.0	2.0	2.0	2.4	2.2
25.....	2.8	3.3	4.1	6.5	5.7	6.6	2.2	2.0	2.0	2.0	2.4	2.2
26.....	2.8	3.3	4.5	6.8	5.5	6.5	2.0	2.0	2.0	2.0	2.4	2.2
27.....	3.2	3.3	4.5	6.5	5.5	6.5	2.0	2.0	2.0	2.0	2.3	2.2
28.....	10.0	3.3	4.2	6.0	5.8	6.8	2.0	2.0	2.0	2.0	2.3	2.2
29.....	6.0	.....	4.6	6.0	6.3	6.3	2.0	2.0	2.0	2.0	2.3	2.2
30.....	4.5	.....	5.0	6.0	8.0	6.0	2.0	2.0	2.0	2.0	2.3	2.2
31.....	4.0	.....	5.8	.....	9.3	.....	2.0	2.0	.....	2.0	.....	2.2
<b>Means.</b>	<b>3.3</b>	<b>3.6</b>	<b>3.7</b>	<b>5.4</b>	<b>7.7</b>	<b>7.2</b>	<b>3.8</b>	<b>2.0</b>	<b>2.0</b>	<b>2.0</b>	<b>2.2</b>	<b>2.2</b>
<b>1904</b>												
1.....	2.1	2.2	4.0	5.3	5.5	8.5	6.0	4.2	3.2	4.0	3.6	3.2
2.....	2.1	2.2	4.0	5.3	5.4	8.5	6.0	4.0	3.2	4.2	3.5	3.2
3.....	2.1	2.2	4.0	5.0	5.2	10.0	5.8	4.0	3.2	4.4	3.5	3.2
4.....	2.1	2.2	4.0	5.0	5.2	9.5	5.8	4.2	3.2	4.5	3.5	3.1
5.....	2.1	2.2	4.0	5.0	6.0	8.8	5.6	4.2	3.2	4.5	3.4	3.1
6.....	2.1	2.2	4.0	5.0	6.5	9.0	5.5	4.2	3.0	4.8	3.4	3.1
7.....	2.1	2.2	4.0	5.2	6.7	8.8	5.5	4.2	3.0	5.7	3.4	3.1
8.....	2.1	2.2	4.0	5.5	9.0	8.0	5.5	4.2	3.0	5.7	3.4	3.1
9.....	2.1	2.2	4.1	6.2	8.8	7.7	5.5	4.2	3.0	5.5	3.3	3.1
10.....	2.1	2.2	4.1	6.8	9.0	7.5	5.2	4.3	3.0	5.5	3.3	3.1
11.....	2.1	2.2	6.5	7.0	9.5	7.5	5.1	4.3	3.0	5.3	3.3	3.1
12.....	2.1	2.2	6.8	7.2	9.7	7.5	5.0	4.1	3.0	8.0	3.3	3.1
13.....	2.1	2.2	6.3	7.2	10.0	7.7	5.0	4.0	2.8	6.5	3.2	3.1
14.....	2.1	2.2	4.5	7.3	11.2	8.0	5.0	4.0	2.8	5.5	3.2	3.1
15.....	2.1	2.2	4.1	7.3	11.0	7.8	5.0	4.0	2.8	5.0	3.2	3.1
16.....	2.1	2.3	4.1	6.8	10.7	8.0	5.0	4.0	2.8	4.7	3.2	3.1
17.....	2.1	5.5	4.1	6.5	10.5	7.8	5.0	4.0	2.8	4.3	3.2	3.1
18.....	2.1	4.0	5.0	6.3	10.2	7.5	5.0	4.0	2.8	4.3	3.2	3.1
19.....	2.2	3.0	4.7	6.3	9.5	7.4	5.0	4.0	2.8	4.3	3.2	3.1
20.....	2.5	3.2	8.5	6.3	8.5	7.2	5.0	4.0	2.8	4.2	3.2	3.1
21.....	2.4	3.2	6.5	7.3	8.8	7.0	5.0	3.8	2.8	4.0	3.2	3.1
22.....	2.3	3.2	6.0	6.5	9.3	7.0	4.8	3.7	2.8	4.0	3.2	3.1
23.....	2.3	3.5	5.5	6.3	10.2	7.0	4.6	3.7	2.8	4.0	3.2	3.1
24.....	2.3	6.0	5.3	6.3	11.0	6.7	5.0	3.5	2.8	4.0	3.2	3.1
25.....	2.3	6.3	5.0	5.5	10.5	6.5	5.0	3.3	5.0	4.0	3.2	3.0
26.....	2.3	5.8	5.0	5.5	9.5	6.2	5.0	3.3	6.8	4.0	3.2	3.0
27.....	2.3	6.0	4.8	5.5	8.6	6.0	5.0	3.3	5.0	3.9	3.2	3.0
28.....	2.2	5.4	5.0	5.3	8.5	6.0	4.7	3.3	4.8	3.9	3.2	3.0
29.....	2.2	4.4	8.0	5.3	9.0	6.0	4.6	3.2	4.0	3.8	3.2	3.0
30.....	2.2	.....	6.0	5.5	9.0	6.0	4.4	3.2	4.0	3.8	3.2	3.0
31.....	2.2	.....	5.5	.....	8.7	.....	4.3	3.2	.....	3.7	.....	3.3
<b>Means.</b>	<b>2.2</b>	<b>3.3</b>	<b>5.1</b>	<b>6.0</b>	<b>8.7</b>	<b>7.6</b>	<b>5.1</b>	<b>3.9</b>	<b>3.3</b>	<b>4.6</b>	<b>3.3</b>	<b>3.1</b>

## SAN JOAQUIN RIVER SYSTEM, SAN JOAQUIN RIVER, SAN JOAQUIN BRIDGE (LATHROP), CAL.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	9.0	6.4	5.4	9.0	9.2	15.0	10.6	2.0	1.5	.....	2.4	.....
2.....	9.0	6.4	5.2	10.0	9.4	15.0	10.2	2.0	1.5	.....	2.3	.....
3.....	10.0	6.3	5.1	10.2	9.7	15.0	10.0	2.0	1.5	.....	2.3	.....
4.....	12.0	6.2	5.2	10.2	10.0	15.0	9.6	2.0	1.5	.....	2.3	.....
5.....	14.0	6.2	5.7	10.0	10.7	14.8	9.2	2.0	1.4	.....	2.4	.....
6.....	14.7	6.1	6.4	9.5	11.0	14.7	9.0	2.0	1.4	.....	2.2	.....
7.....	14.6	6.0	7.0	9.2	11.4	14.8	8.6	2.0	1.4	.....	2.1	.....
8.....	13.6	6.0	7.0	8.8	12.0	14.4	8.3	2.0	1.4	.....	2.0	.....
9.....	12.0	5.8	8.0	8.4	12.4	14.0	8.0	2.0	1.5	.....	2.0	.....
10.....	12.0	5.6	8.1	9.2	13.3	15.0	7.5	2.0	1.5	.....	3.4	.....
11.....	11.8	5.4	8.2	8.8	13.5	15.2	6.2	2.0	1.5	.....	3.3	.....
12.....	11.7	5.2	8.1	8.3	12.8	15.1	5.7	1.8	1.5	.....	3.2	.....
13.....	11.0	5.2	8.6	8.2	12.6	15.0	5.4	1.8	1.5	.....	3.0	.....
14.....	10.6	5.0	9.5	8.0	12.8	14.7	5.2	1.8	1.5	.....	2.6	.....
15.....	10.2	5.0	9.5	8.0	13.3	14.3	5.0	1.7	1.5	.....	2.4	.....
16.....	10.0	4.8	9.4	7.8	13.8	14.2	4.7	1.7	1.4	2.5	2.3	.....
17.....	9.7	4.8	9.4	7.6	14.4	14.1	4.3	1.7	1.4	2.5	2.3	.....
18.....	9.2	4.8	9.6	7.4	14.5	13.8	4.0	1.5	1.4	2.5	2.8	.....
19.....	8.8	4.7	10.0	7.4	14.6	13.5	3.7	1.4	1.4	2.5	4.8	.....
20.....	8.6	4.7	10.0	8.2	14.7	13.3	3.5	1.3	1.4	2.5	6.0	.....
21.....	8.4	4.7	10.0	10.0	15.1	13.2	3.2	1.3	1.3	4.5	6.6	.....
22.....	8.2	5.0	9.8	10.7	15.2	13.2	3.1	1.3	1.3	6.5	11.4	.....
23.....	7.7	5.4	9.7	10.4	15.2	13.2	3.0	1.3	1.3	5.5	13.6	.....
24.....	7.5	5.7	9.7	10.0	15.2	13.2	2.7	1.3	1.2	5.5	14.0	.....
25.....	7.4	5.5	9.5	9.7	15.2	13.1	2.5	1.4	1.2	5.0	13.8	.....
26.....	7.3	5.2	9.3	9.3	15.1	12.7	2.4	1.4	1.2	4.6	13.3	.....
27.....	7.2	5.4	9.0	9.2	15.1	12.5	2.3	1.4	1.1	4.1	12.6	.....
28.....	7.1	5.6	8.8	9.0	15.1	11.7	2.2	1.4	1.1	3.6	12.2	.....
29.....	7.0	.....	8.6	8.4	15.1	11.4	2.0	1.4	1.1	3.4	12.4	.....
30.....	7.0	.....	8.5	8.4	15.1	11.0	2.0	1.4	1.1	3.0	11.0	.....
31.....	6.8	.....	8.4	.....	15.0	.....	2.0	1.4	.....	2.6	.....	.....
<b>Means.</b>	<b>9.8</b>	<b>5.5</b>	<b>8.3</b>	<b>9.0</b>	<b>13.3</b>	<b>13.9</b>	<b>5.4</b>	<b>1.7</b>	<b>1.4</b>	<b>3.8</b>	<b>5.9</b>	<b>.....</b>
<b>1901</b>												
1.....	5.2	9.5	16.5	12.2	14.8	16.0	16.1	11.2	3.3	1.8	3.5	4.8
2.....	5.1	9.2	16.2	11.8	15.1	16.3	16.4	10.7	3.0	1.8	3.6	5.3
3.....	4.7	9.1	16.1	11.6	15.0	16.7	16.5	10.4	3.0	1.7	3.5	5.0
4.....	4.5	8.8	16.0	11.4	14.6	17.1	16.4	10.1	2.8	1.9	3.4	5.0
5.....	4.8	8.5	15.8	11.6	14.5	17.2	16.3	9.7	2.7	2.0	3.4	6.4
6.....	6.7	12.5	15.6	11.4	14.5	17.3	16.0	9.8	2.7	1.9	3.1	9.5
7.....	12.7	14.3	15.5	10.9	14.5	17.3	15.7	10.0	2.6	2.0	3.2	10.0
8.....	14.8	14.5	15.3	10.8	14.8	17.2	15.5	10.2	2.4	1.7	3.1	10.0
9.....	16.7	14.8	15.2	10.6	15.2	17.2	15.4	9.8	2.4	1.5	3.0	8.5
10.....	16.5	15.0	15.2	10.4	15.1	17.0	15.3	9.3	2.3	1.4	3.0	7.7
11.....	16.1	14.8	15.1	9.9	16.1	16.7	15.1	9.1	2.1	1.4	3.1	7.3
12.....	15.5	14.8	14.8	9.9	16.6	16.4	15.0	8.7	2.1	1.4	2.8	7.0
13.....	15.0	14.6	14.8	9.6	17.0	16.2	14.9	8.4	2.0	1.4	3.5	6.7
14.....	14.7	14.5	14.6	9.8	17.2	16.0	14.8	8.0	1.9	1.5	3.7	6.3
15.....	14.5	14.6	14.5	10.4	17.3	15.8	14.7	7.4	1.8	1.3	3.8	5.7
16.....	14.3	14.2	14.2	11.1	17.5	15.7	14.6	7.0	1.9	1.2	3.8	5.4
17.....	14.2	14.1	14.2	11.1	17.5	15.7	14.5	6.6	1.8	1.2	3.5	5.2
18.....	13.6	14.3	14.2	11.8	17.6	16.2	14.4	6.2	1.8	1.1	3.3	5.0
19.....	13.2	15.6	14.1	12.0	17.6	16.4	14.2	5.8	1.7	0.9	3.2	4.7
20.....	13.2	16.8	13.8	12.6	17.6	16.6	14.0	5.8	1.6	0.8	3.0	4.4
21.....	12.7	18.0	13.7	12.9	17.3	16.8	13.8	5.7	1.6	0.7	3.0	4.2
22.....	12.5	17.3	13.8	13.4	17.1	16.7	13.6	5.4	1.5	0.8	3.0	4.2
23.....	12.5	17.3	13.3	13.7	16.5	17.0	13.4	5.2	1.4	0.9	3.1	4.1
24.....	12.2	17.3	13.2	13.9	16.9	16.7	13.4	5.1	1.4	1.0	3.2	4.0
25.....	11.6	14.6	13.4	14.4	16.2	16.7	13.2	4.7	1.4	1.0	3.2	3.9
26.....	11.2	17.2	13.3	14.4	16.2	16.4	13.0	4.4	1.5	1.1	3.4	3.8
27.....	10.7	17.0	13.1	14.6	16.1	16.4	12.8	4.2	1.6	1.3	3.3	3.8
28.....	10.5	16.5	12.8	14.6	16.0	16.0	12.5	4.1	1.8	1.2	3.5	3.7
29.....	10.3	.....	12.7	14.8	15.8	15.7	12.2	3.8	1.9	1.4	3.5	3.5
30.....	10.0	.....	12.5	14.8	15.6	15.7	11.8	3.6	2.0	2.8	3.9	3.3
31.....	9.5	.....	12.1	.....	15.5	.....	11.5	3.4	.....	3.5	.....	3.2
<b>Means.</b>	<b>11.6</b>	<b>15.7</b>	<b>14.4</b>	<b>12.1</b>	<b>16.1</b>	<b>16.5</b>	<b>14.4</b>	<b>7.2</b>	<b>2.1</b>	<b>1.5</b>	<b>3.3</b>	<b>5.5</b>

## SAN JOAQUIN RIVER SYSTEM SAN JOAQUIN RIVER, SAN JOAQUIN BRIDGE (LATHROP), CAL.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	3.2	2.3	13.2	7.3	11.8	15.8	13.2	2.9	0.6	0.4	0.4	2.0
2.....	3.0	2.2	12.7	7.5	12.4	15.7	13.0	2.7	0.5	0.5	0.3	2.1
3.....	2.9	2.0	12.9	7.8	12.3	15.4	12.8	2.6	0.7	0.6	0.4	2.0
4.....	2.9	2.1	13.2	7.5	12.1	15.0	12.5	2.5	0.8	0.5	0.5	1.9
5.....	3.2	2.2	13.0	7.3	12.0	14.6	11.8	2.3	0.6	0.2	0.4	1.8
6.....	3.7	2.0	12.3	7.5	12.1	14.5	10.9	2.4	0.8	0.1	0.4	1.8
7.....	3.6	2.2	11.5	8.1	12.4	14.7	10.0	2.2	1.0	0.1	0.3	1.9
8.....	3.5	2.3	11.1	10.0	13.0	15.0	9.2	2.0	1.0	0.0	0.2	2.0
9.....	3.3	2.4	10.5	12.8	13.5	15.2	8.5	1.9	0.9	-0.2	0.3	2.9
10.....	3.0	2.7	12.2	13.4	14.0	15.3	7.8	1.8	0.8	-0.3	0.5	2.8
11.....	2.9	2.8	12.9	13.4	14.4	15.5	7.2	1.6	0.6	-0.3	0.8	3.0
12.....	2.8	3.0	12.6	13.2	14.7	15.7	6.9	1.5	0.4	-0.3	2.8	3.8
13.....	2.8	2.8	12.0	13.1	14.9	15.8	6.6	1.4	0.5	-0.2	3.5	5.5
14.....	2.8	2.7	11.1	13.0	15.0	15.8	6.3	1.3	0.5	-0.2	3.5	5.0
15.....	2.9	3.4	10.3	13.1	15.2	15.6	6.0	1.4	0.6	-0.1	3.1	4.5
16.....	2.6	3.5	9.5	13.2	15.1	15.5	5.8	1.3	0.5	0.0	2.6	4.0
17.....	2.6	3.8	8.8	13.4	14.9	15.3	5.6	1.3	0.6	0.0	2.4	3.8
18.....	2.5	4.8	8.4	13.4	14.4	15.1	5.4	1.4	0.5	0.1	2.4	3.6
19.....	2.6	5.6	8.4	13.7	14.5	14.8	5.1	1.5	0.5	0.2	2.5	3.5
20.....	2.5	5.5	8.2	14.0	14.5	14.7	4.9	1.2	0.6	0.2	2.6	3.3
21.....	2.5	5.2	7.9	14.4	14.4	14.6	4.7	1.3	0.5	0.3	3.0	3.1
22.....	2.6	5.2	7.6	14.4	14.1	14.7	4.5	1.2	0.6	0.3	2.8	3.0
23.....	2.8	5.5	7.4	14.2	13.8	14.7	4.3	1.0	0.7	0.4	2.7	2.8
24.....	2.8	6.2	7.2	13.5	13.4	14.6	4.2	1.2	0.8	0.6	2.6	2.7
25.....	2.7	7.3	7.5	13.2	13.5	14.5	4.0	1.0	0.4	0.2	2.3	2.7
26.....	2.5	10.2	6.2	13.0	13.9	14.4	3.8	1.1	.....	0.1	2.3	2.8
27.....	2.3	11.6	7.0	12.6	14.3	14.2	3.6	1.0	.....	0.0	2.4	2.9
28.....	2.3	12.4	6.7	12.2	14.6	14.0	3.4	1.0	0.1	0.4	2.3	2.9
29.....	2.5	.....	6.8	12.0	15.1	13.6	3.2	1.2	0.2	0.5	2.2	3.0
30.....	2.4	.....	6.8	11.8	15.4	13.3	3.0	0.9	0.3	0.4	2.1	2.9
31.....	2.2	.....	7.1	.....	15.7	.....	2.9	0.8	.....	0.6	.....	2.8
<b>Means.</b>	<b>2.8</b>	<b>4.4</b>	<b>9.8</b>	<b>11.8</b>	<b>13.9</b>	<b>14.9</b>	<b>6.8</b>	<b>1.6</b>	<b>0.6</b>	<b>0.2</b>	<b>1.8</b>	<b>3.0</b>
<b>1903</b>												
1.....	2.6	14.1	5.1	15.2	13.5	14.8	12.9	1.9	0.5	-0.2	0.0	2.1
2.....	2.5	14.4	5.0	17.6	13.9	15.3	12.6	1.7	0.3	-0.3	0.0	2.1
3.....	2.4	13.0	5.2	17.9	14.2	15.8	12.4	1.7	0.2	-0.5	0.0	2.0
4.....	2.4	12.0	5.4	17.3	14.3	16.1	12.1	1.6	0.3	-0.4	0.0	2.0
5.....	2.1	11.0	6.0	16.8	14.8	16.0	11.5	1.4	0.3	-0.4	0.0	2.1
6.....	2.0	10.0	6.8	16.4	15.1	15.9	10.8	1.3	0.1	-0.3	0.0	2.0
7.....	1.9	9.0	7.4	15.8	15.4	15.6	10.0	1.2	0.2	-0.2	0.0	2.0
8.....	1.9	8.5	7.2	15.4	15.6	15.6	9.6	1.2	0.1	-0.2	0.0	1.9
9.....	2.1	8.3	6.8	14.8	15.8	15.9	8.9	1.1	0.1	-0.3	0.0	1.8
10.....	2.1	8.0	7.0	14.4	16.0	16.0	8.2	1.3	0.0	-0.2	0.0	1.6
11.....	2.3	7.8	7.2	14.2	16.0	16.0	7.5	1.2	0.0	0.0	0.2	1.5
12.....	2.2	7.4	6.8	14.1	16.3	15.9	6.9	1.3	0.0	0.0	0.2	1.5
13.....	2.1	7.2	6.8	13.8	16.5	15.9	6.4	1.1	0.2	0.0	0.3	1.6
14.....	2.1	7.1	6.8	13.4	16.7	15.6	6.0	1.0	0.3	0.0	0.4	1.3
15.....	2.0	7.0	9.8	13.1	16.9	15.4	5.6	0.9	0.3	0.0	3.3	0.9
16.....	2.0	6.5	10.9	12.8	16.9	15.3	5.3	0.8	0.2	0.0	5.0	0.8
17.....	2.1	6.2	9.9	12.4	16.7	15.1	4.9	0.6	0.0	0.0	4.6	0.9
18.....	2.1	6.2	10.7	12.2	16.6	14.9	4.6	0.5	-0.2	0.0	3.5	1.0
19.....	2.0	6.0	10.2	11.8	16.2	14.3	4.3	0.5	-0.1	0.0	2.8	1.1
20.....	1.8	5.9	9.5	11.2	15.6	14.0	4.0	0.6	0.0	0.0	2.7	1.2
21.....	1.8	5.8	9.1	10.8	15.2	14.0	3.9	0.7	0.1	0.2	2.6	1.3
22.....	1.7	5.6	8.5	10.5	14.8	14.1	3.8	0.6	0.2	0.2	3.9	1.4
23.....	1.9	5.5	8.1	10.9	14.5	14.2	3.7	0.5	0.3	0.3	5.8	1.4
24.....	2.0	5.4	8.0	11.4	14.2	14.0	3.5	0.7	0.2	0.2	5.0	1.5
25.....	2.0	5.3	8.2	12.2	14.0	13.8	3.3	0.9	0.4	0.4	4.3	1.3
26.....	2.8	5.3	8.7	12.8	13.8	13.6	3.0	1.0	0.6	0.4	4.3	1.2
27.....	6.5	5.3	9.3	13.4	13.6	13.4	2.8	0.9	0.8	0.2	3.7	1.2
28.....	11.9	5.3	10.0	13.7	13.6	13.5	2.7	1.0	0.6	0.0	3.4	1.1
29.....	14.2	.....	10.5	13.7	13.5	13.4	2.6	1.1	0.2	0.0	2.7	1.0
30.....	15.3	.....	12.5	13.5	13.7	13.2	2.3	0.9	0.0	0.0	2.3	1.0
31.....	15.0	.....	13.8	.....	14.2	.....	2.1	0.5	.....	0.0	.....	0.9
<b>Means.</b>	<b>3.8</b>	<b>7.8</b>	<b>8.3</b>	<b>13.8</b>	<b>15.1</b>	<b>14.6</b>	<b>6.4</b>	<b>1.0</b>	<b>0.2</b>	<b>0.0</b>	<b>2.0</b>	<b>1.4</b>

## SAN JOAQUIN RIVER SYSTEM—SAN JOAQUIN RIVER, SAN JOAQUIN BRIDGE (LATHROP), CAL.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	1.3	0.9	15.7	16.0	12.6	17.2	13.7	4.3	1.1	4.6	5.7	2.9
2.....	1.4	1.0	14.5	15.4	12.6	17.0	13.7	4.2	0.9	5.5	5.4	3.0
3.....	1.5	1.0	13.3	14.8	12.7	16.9	13.3	4.6	0.8	6.8	5.2	3.2
4.....	1.5	0.9	12.2	14.2	12.5	16.8	12.9	5.0	0.9	7.1	5.2	3.3
5.....	1.4	0.8	11.3	13.9	12.5	16.9	12.4	4.0	0.9	6.9	5.0	3.2
6.....	1.3	0.9	11.0	13.4	13.0	17.0	12.0	3.6	0.6	6.4	4.8	3.1
7.....	1.2	1.0	10.5	13.1	13.5	17.0	11.7	3.3	0.5	6.4	4.7	3.0
8.....	1.2	1.3	10.0	13.0	14.0	17.2	11.5	3.4	0.5	7.6	4.6	2.9
9.....	1.1	1.6	10.4	13.0	14.8	17.3	11.4	3.3	0.6	10.6	4.4	3.0
10.....	1.2	1.5	11.3	13.3	15.3	17.4	11.0	3.2	0.4	11.0	4.4	3.2
11.....	1.3	1.5	11.7	13.6	15.8	16.8	10.5	2.9	0.4	11.0	4.2	3.5
12.....	1.3	1.7	13.1	14.0	16.3	16.7	9.8	2.7	0.5	11.3	4.0	3.3
13.....	1.4	2.5	13.4	14.3	16.6	16.7	9.3	2.6	0.6	12.9	3.7	3.2
14.....	1.5	8.0	13.0	14.8	17.0	16.6	8.9	2.4	0.5	13.2	3.4	3.0
15.....	1.4	6.8	12.2	15.3	17.3	16.7	8.2	2.2	0.4	12.5	3.4	2.6
16.....	1.2	5.8	11.5	15.7	17.4	16.7	7.8	2.0	0.4	11.5	3.3	2.3
17.....	1.0	9.8	11.2	15.8	17.4	16.6	7.2	2.0	0.3	10.6	3.0	2.2
18.....	1.0	12.0	11.0	15.6	17.4	16.4	7.0	2.2	0.3	9.8	3.0	2.0
19.....	1.5	11.5	12.2	15.1	17.5	16.3	6.5	2.3	0.2	9.2	3.0	2.1
20.....	1.4	9.2	13.0	14.8	17.5	16.1	6.2	2.4	0.3	8.7	2.9	2.2
21.....	1.3	7.3	14.3	15.1	17.1	15.9	6.7	2.2	0.3	8.0	2.8	2.2
22.....	1.2	6.3	16.4	15.0	16.9	15.8	6.8	1.9	0.4	7.6	2.7	2.2
23.....	1.0	7.2	16.3	14.7	16.9	15.7	6.6	1.9	0.4	7.3	2.7	2.1
24.....	0.9	10.5	16.0	14.3	17.3	15.5	6.5	1.7	0.5	7.0	2.7	2.0
25.....	0.8	13.0	15.7	13.8	17.8	15.4	6.5	1.7	0.6	6.8	2.8	2.0
26.....	0.8	14.5	15.5	13.4	18.0	15.2	6.2	1.7	0.7	6.6	2.8	2.2
27.....	0.7	15.5	15.1	13.3	18.0	14.8	5.8	1.7	3.2	6.5	2.9	2.2
28.....	0.7	15.6	14.6	13.4	17.5	14.5	5.4	1.5	4.0	6.4	2.9	2.4
29.....	0.7	16.1	14.3	13.2	17.2	14.2	5.2	1.3	4.2	6.3	2.8	2.5
30.....	0.8	.....	14.8	12.9	17.0	13.9	4.9	1.2	3.6	6.1	2.7	2.5
31.....	0.9	.....	15.5	.....	17.1	.....	4.6	1.0	.....	5.8	.....	2.6
Means.	1.2	6.4	13.3	14.3	16.0	16.3	8.7	2.6	0.9	8.3	3.7	2.6

## SANTEE RIVER SYSTEM—CATAWBA RIVER, MOUNT HOLLY, N. C.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	.....	.....	.....	.....	.....	.....	.....	2.2	1.9	1.5	1.1	1.5
2.....	.....	.....	.....	.....	.....	.....	.....	2.5	1.9	1.5	1.0	1.5
3.....	.....	.....	.....	.....	.....	.....	.....	2.8	1.7	1.5	1.0	1.6
4.....	.....	.....	.....	.....	.....	.....	.....	2.1	1.8	1.5	1.2	1.8
5.....	.....	.....	.....	.....	.....	.....	.....	1.7	3.8	1.4	1.4	1.8
6.....	.....	.....	.....	.....	.....	.....	.....	2.6	2.7	1.4	1.4	1.9
7.....	.....	.....	.....	.....	.....	.....	.....	2.1	2.1	1.5	1.4	2.2
8.....	.....	.....	.....	.....	.....	.....	.....	3.5	1.9	1.5	1.4	2.0
9.....	.....	.....	.....	.....	.....	.....	.....	2.7	1.8	1.4	1.3	1.9
10.....	.....	.....	.....	.....	.....	.....	.....	2.9	1.8	1.4	1.3	1.8
11.....	.....	.....	.....	.....	.....	.....	.....	3.3	1.7	1.4	1.5	1.8
12.....	.....	.....	.....	.....	.....	.....	.....	3.5	1.7	1.3	1.6	1.8
13.....	.....	.....	.....	.....	.....	.....	.....	3.0	1.8	1.3	1.6	1.8
14.....	.....	.....	.....	.....	.....	.....	.....	2.6	1.8	1.3	2.3	1.8
15.....	.....	.....	.....	.....	.....	.....	.....	2.2	1.9	1.3	2.1	1.7
16.....	.....	.....	.....	.....	.....	.....	.....	3.0	1.9	1.3	2.0	1.7
17.....	.....	.....	.....	.....	.....	.....	.....	2.5	1.9	1.3	2.0	1.7
18.....	.....	.....	.....	.....	.....	.....	.....	2.3	1.8	1.3	2.0	1.7
19.....	.....	.....	.....	.....	.....	.....	1.0	1.9	1.8	1.3	2.0	1.8
20.....	.....	.....	.....	.....	.....	.....	1.0	2.1	1.9	1.3	1.7	1.8
21.....	.....	.....	.....	.....	.....	.....	1.2	2.0	1.9	1.3	1.7	1.7
22.....	.....	.....	.....	.....	.....	.....	1.5	2.0	1.7	1.4	1.6	1.7
23.....	.....	.....	.....	.....	.....	.....	1.5	2.1	1.8	1.3	1.7	1.7
24.....	.....	.....	.....	.....	.....	.....	2.1	2.6	1.6	1.3	1.7	1.6
25.....	.....	.....	.....	.....	.....	.....	1.6	3.5	1.5	1.2	1.7	1.7
26.....	.....	.....	.....	.....	.....	.....	1.6	2.8	1.5	1.2	1.7	1.7
27.....	.....	.....	.....	.....	.....	.....	1.6	2.7	1.5	1.3	1.6	1.7
28.....	.....	.....	.....	.....	.....	.....	2.5	2.4	1.5	1.3	1.6	1.8
29.....	.....	.....	.....	.....	.....	.....	2.3	2.0	1.6	1.3	1.6	1.9
30.....	.....	.....	.....	.....	.....	.....	2.2	2.0	1.5	1.3	1.5	1.9
31.....	.....	.....	.....	.....	.....	.....	1.8	1.8	.....	1.3	.....	1.9
Means.	.....	.....	.....	.....	.....	.....	.....	2.5	1.9	1.4	1.6	1.4

## DESCRIPTION OF RIVER GAGES, ETC.

## SANTEE RIVER SYSTEM—WATEREE RIVER, CAMDEN, S. C.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	4.2	4.2	14.5	8.2	8.7	4.8	8.6	7.6	3.6	1.5	3.5	5.8
2.....	3.2	3.9	25.0	7.3	8.1	4.9	8.0	6.8	3.8	1.4	3.4	4.7
3.....	3.1	3.5	27.5	7.0	7.8	4.7	7.4	5.4	3.0	3.0	3.5	4.5
4.....	3.2	3.3	23.3	7.1	7.6	5.1	7.5	4.0	2.7	2.8	16.1	8.0
5.....	3.5	5.0	17.0	7.5	7.5	6.0	7.2	3.7	2.5	2.1	23.5	20.2
6.....	3.8	6.0	12.5	7.6	7.2	5.9	6.3	3.6	2.4	2.5	17.1	17.0
7.....	4.1	5.9	10.3	7.2	7.0	5.8	5.9	3.5	2.4	2.7	10.0	12.8
8.....	4.2	5.4	9.9	6.5	6.6	5.1	5.3	3.4	2.3	3.0	5.3	7.1
9.....	4.3	5.2	16.5	6.2	6.4	7.0	5.0	3.2	2.2	4.1	5.0	6.0
10.....	4.3	5.0	18.8	6.0	6.4	5.8	4.8	3.1	2.1	4.5	4.4	5.5
11.....	4.4	10.9	15.0	6.0	6.1	5.5	4.8	2.9	2.1	3.4	4.0	5.3
12.....	9.0	19.5	10.8	6.4	5.9	5.3	4.7	2.7	2.0	3.0	4.0	5.1
13.....	14.1	21.8	10.0	8.5	5.7	4.9	5.0	2.6	1.8	4.1	3.7	5.0
14.....	15.0	27.0	8.9	8.4	5.6	4.7	5.2	2.5	1.7	6.0	3.5	4.8
15.....	10.5	28.0	8.4	7.0	5.5	5.6	5.3	2.4	1.8	3.8	3.3	6.0
16.....	7.5	23.4	12.5	6.2	5.4	6.1	4.8	2.4	5.0	3.5	3.2	5.2
17.....	6.2	16.5	22.8	5.7	5.2	9.0	4.5	2.3	3.5	3.1	3.1	5.0
18.....	5.7	11.7	21.3	5.7	5.4	18.0	4.1	3.0	7.4	2.8	3.0	4.3
19.....	4.8	9.7	15.5	21.3	14.5	21.0	3.9	3.8	7.1	2.4	2.9	4.0
20.....	6.1	7.8	11.5	28.3	13.0	18.1	3.8	4.0	5.2	2.2	5.5	4.1
21.....	9.8	6.9	11.0	28.3	7.1	12.5	3.7	3.4	3.8	2.0	5.0	13.1
22.....	9.5	11.0	1.4	27.9	5.9	9.0	3.6	3.3	2.7	2.0	4.1	22.1
23.....	8.8	19.9	10.5	28.4	5.5	10.5	3.5	3.1	2.2	2.3	3.4	19.5
24.....	7.2	18.0	9.5	25.5	5.2	22.0	4.4	2.7	2.0	3.2	3.1	15.0
25.....	6.7	15.7	12.4	20.5	5.6	22.5	8.0	5.5	1.8	19.6	3.0	9.9
26.....	5.8	14.0	18.5	15.1	9.5	17.7	6.6	4.4	1.7	24.0	6.0	8.8
27.....	5.4	10.3	15.5	12.8	9.6	15.4	6.5	4.0	1.6	12.5	6.4	8.0
28.....	5.1	8.7	14.0	11.3	7.6	12.3	8.0	3.4	1.6	7.1	17.0	7.4
29.....	4.7	.....	11.2	10.3	6.2	11.5	9.1	3.0	1.5	5.6	11.3	6.5
30.....	4.6	.....	10.7	9.4	5.7	9.3	7.1	3.0	1.6	4.5	7.0	6.0
31.....	4.4	.....	9.0	.....	5.0	.....	10.0	2.9	.....	3.8	.....	13.5
<b>Means.</b>	<b>6.2</b>	<b>11.7</b>	<b>14.4</b>	<b>12.1</b>	<b>7.0</b>	<b>9.9</b>	<b>5.9</b>	<b>3.6</b>	<b>2.8</b>	<b>4.8</b>	<b>6.5</b>	<b>8.7</b>
<b>1901</b>												
1.....	14.0	7.3	4.4	10.7	9.2	15.5	15.0	5.0	22.6	16.5	4.0	4.6
2.....	11.8	6.0	4.3	9.8	8.8	15.0	15.5	5.5	26.0	14.0	3.9	4.4
3.....	13.6	5.8	4.0	27.3	8.7	13.6	13.1	6.0	17.1	10.0	3.8	4.0
4.....	11.0	11.5	3.7	30.5	8.3	13.0	12.0	5.5	14.0	13.0	4.0	3.8
5.....	8.4	20.0	3.8	28.8	8.1	12.2	11.4	5.0	13.2	10.1	4.3	4.3
6.....	7.3	14.1	3.6	22.1	7.9	11.0	10.0	13.0	11.0	8.0	4.2	4.1
7.....	6.4	9.8	3.4	16.0	7.7	12.4	9.0	29.7	10.0	7.0	4.3	4.0
8.....	6.0	7.7	3.2	12.5	7.4	13.0	9.2	30.2	9.1	6.2	4.2	3.8
9.....	5.4	8.4	3.1	11.6	8.0	12.4	10.5	28.0	8.5	5.5	4.1	3.5
10.....	5.1	14.0	3.1	9.4	8.5	11.0	20.0	18.0	8.0	5.0	4.0	3.3
11.....	4.8	9.8	4.5	8.8	8.8	10.1	18.5	14.0	7.5	4.6	4.0	4.0
12.....	8.0	8.2	5.7	8.3	8.6	9.1	12.0	15.5	7.0	4.1	4.1	4.2
13.....	12.5	7.8	7.5	7.7	8.4	9.4	9.5	15.0	6.7	4.0	4.3	4.4
14.....	22.0	7.1	7.3	8.6	7.7	10.5	9.0	15.6	6.9	13.5	4.3	5.0
15.....	14.4	6.6	5.4	14.2	7.3	24.1	9.0	26.0	6.7	10.0	4.2	5.5
16.....	10.8	6.0	4.8	13.7	7.0	26.4	10.3	28.7	6.2	8.5	4.1	6.9
17.....	8.5	5.7	4.1	11.0	6.6	26.6	15.0	28.8	6.5	7.4	4.0	23.5
18.....	11.9	5.3	3.8	9.5	6.5	27.4	14.4	27.9	21.5	6.5	4.0	28.0
19.....	9.8	5.0	3.6	8.4	6.4	23.0	13.0	25.2	28.4	6.0	4.4	19.0
20.....	7.5	4.0	3.5	23.1	8.5	17.5	16.2	23.5	26.5	5.5	4.5	10.5
21.....	6.3	4.7	4.0	29.2	19.0	17.0	13.0	22.8	18.4	5.2	4.4	8.5
22.....	6.0	4.5	3.4	31.1	28.8	20.1	11.0	18.5	14.0	5.6	4.3	6.0
23.....	5.7	4.6	3.2	28.0	30.8	16.8	9.5	18.9	13.0	5.2	4.8	5.0
24.....	5.5	4.4	4.0	20.5	32.5	15.0	10.4	25.7	11.5	4.7	5.0	4.5
25.....	7.1	4.4	3.8	16.7	29.5	17.8	9.0	27.0	10.0	4.3	5.2	5.5
26.....	6.0	4.5	10.5	13.8	20.5	17.5	8.5	24.2	9.0	4.0	5.3	5.7
27.....	5.4	4.6	27.9	11.9	23.4	18.1	7.0	20.0	8.5	3.7	5.0	7.0
28.....	6.0	4.4	29.6	10.8	27.8	16.0	7.9	23.6	8.0	3.5	4.9	11.0
29.....	5.3	.....	26.5	10.0	26.7	14.4	8.0	23.0	8.5	3.5	4.7	23.5
30.....	5.0	.....	18.4	9.5	21.5	13.1	6.5	21.9	11.0	3.4	4.7	28.2
31.....	8.0	.....	13.0	.....	17.0	.....	5.5	25.7	.....	3.5	.....	30.5
<b>Means.</b>	<b>8.6</b>	<b>7.4</b>	<b>7.5</b>	<b>15.8</b>	<b>14.1</b>	<b>16.0</b>	<b>11.3</b>	<b>19.9</b>	<b>12.3</b>	<b>6.8</b>	<b>4.4</b>	<b>9.2</b>

## Santee River System—WATEREE RIVER, CAMDEN, S. C.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	30.5	24.0	27.4	20.1	7.9	7.1	7.1	6.0	5.1	5.7	7.0	19.4
2.....	23.8	27.9	29.5	15.0	8.0	6.6	7.1	9.0	5.0	6.8	6.5	23.3
3.....	17.6	29.9	28.8	12.8	8.4	6.5	6.6	8.9	5.0	6.6	5.5	21.3
4.....	15.5	27.1	23.8	11.7	7.7	6.5	6.3	6.8	4.9	5.9	5.0	23.4
5.....	15.0	19.7	18.5	10.4	7.5	6.4	6.1	6.2	7.8	7.3	5.1	23.0
6.....	14.8	15.0	16.1	11.5	7.5	6.3	6.0	7.1	9.4	15.2	5.1	13.3
7.....	14.6	12.8	15.0	11.0	7.3	5.6	5.9	6.8	6.2	13.7	6.0	12.8
8.....	14.5	11.7	13.3	13.5	7.5	7.3	6.0	6.4	5.2	10.2	7.6	11.3
9.....	14.3	11.1	12.7	14.6	7.6	7.0	6.0	5.4	9.8	7.0	7.8	10.1
10.....	14.2	10.7	13.4	12.5	7.5	7.4	7.0	5.1	14.7	5.7	6.4	8.6
11.....	14.1	10.4	12.4	10.0	7.4	6.4	8.0	5.9	21.2	7.0	5.6	7.7
12.....	14.0	10.1	11.8	9.4	7.1	6.3	6.0	8.2	13.0	12.7	5.4	7.3
13.....	13.8	10.0	11.4	9.1	7.0	6.0	7.6	7.2	7.5	10.0	5.2	17.0
14.....	13.6	9.8	12.0	8.8	7.3	5.9	6.9	6.8	6.4	8.4	5.1	15.4
15.....	13.5	9.9	11.3	8.8	11.7	6.3	6.7	26.3	5.5	10.3	5.1	10.9
16.....	13.5	9.8	11.4	8.7	11.4	9.7	7.2	23.0	5.3	8.0	4.9	8.6
17.....	13.5	9.7	17.9	8.8	9.2	25.3	6.1	12.8	5.1	6.1	4.9	8.0
18.....	13.5	10.4	21.5	13.1	8.0	28.9	6.3	7.4	5.4	5.5	5.9	10.1
19.....	13.5	10.2	18.3	12.3	8.1	23.0	6.0	7.0	5.3	5.1	15.2	11.4
20.....	13.5	10.1	13.3	11.0	8.4	14.1	5.6	6.8	5.3	5.0	11.6	10.8
21.....	14.0	10.6	11.4	9.6	9.0	9.2	5.4	5.2	5.2	4.8	9.4	9.2
22.....	16.0	13.0	10.7	9.1	8.0	8.0	5.3	8.7	5.1	4.8	6.5	10.0
23.....	15.0	16.0	10.3	8.9	7.8	7.9	5.4	6.1	5.0	4.8	6.0	18.0
24.....	12.2	20.0	10.0	8.6	7.2	7.7	6.5	7.8	4.8	4.7	5.6	14.4
25.....	11.2	18.9	9.7	8.6	7.1	7.5	6.6	5.6	4.5	4.6	5.4	11.5
26.....	10.8	23.9	9.5	8.4	7.2	7.3	8.1	5.2	5.7	4.6	13.5	10.2
27.....	10.5	25.3	9.2	8.2	8.9	7.2	7.3	5.0	4.8	4.8	13.9	8.4
28.....	10.4	22.9	9.1	8.1	7.8	7.1	6.0	5.9	4.5	10.0	9.2	7.9
29.....	12.0	.....	10.1	8.0	7.4	6.9	7.4	6.3	4.9	15.1	7.4	7.0
30.....	14.1	.....	20.7	7.9	7.0	8.4	6.5	5.8	5.1	10.5	7.0	6.4
31.....	13.5	.....	25.5	.....	6.7	.....	6.1	5.2	.....	8.0	.....	6.2
<b>Means.</b>	<b>14.5</b>	<b>15.7</b>	<b>15.4</b>	<b>10.6</b>	<b>8.0</b>	<b>9.2</b>	<b>6.5</b>	<b>7.9</b>	<b>6.8</b>	<b>7.7</b>	<b>7.2</b>	<b>12.4</b>
<b>1903</b>												
1.....	7.0	7.6	26.2	.....	9.6	9.0	9.7	8.5	7.0	5.6	6.1	6.0
2.....	7.0	6.8	27.0	.....	9.1	10.3	9.5	10.0	10.7	5.6	6.3	6.0
3.....	15.0	6.7	22.0	.....	8.8	14.0	8.9	9.3	8.0	5.6	6.4	6.0
4.....	27.0	6.6	16.7	.....	8.7	14.3	8.7	8.8	7.7	5.2	6.2	6.0
5.....	26.0	14.6	14.0	.....	8.9	15.3	8.5	9.5	7.0	5.2	6.5	6.0
6.....	21.0	22.2	13.5	.....	8.7	17.5	8.3	9.0	7.0	5.2	12.0	6.0
7.....	16.8	17.7	12.0	.....	8.6	27.5	10.4	10.0	6.7	5.2	10.0	6.0
8.....	12.7	27.5	13.0	.....	8.5	28.3	11.6	10.0	6.4	5.2	8.5	6.0
9.....	10.0	29.4	16.0	.....	8.4	23.5	9.8	9.6	6.4	5.8	8.1	6.1
10.....	9.0	26.6	18.6	.....	8.3	22.7	9.5	8.6	10.0	5.6	7.0	6.6
11.....	8.0	21.0	18.5	.....	8.3	17.8	9.0	8.0	9.0	8.0	6.7	6.5
12.....	9.3	27.7	19.7	.....	8.3	23.6	8.7	7.4	8.0	7.6	6.7	6.4
13.....	13.5	26.9	19.4	.....	8.2	18.5	8.4	7.0	7.0	7.0	6.6	6.5
14.....	10.5	22.5	17.2	.....	8.1	14.0	12.0	9.7	7.0	7.0	6.6	6.4
15.....	9.5	17.4	14.4	.....	8.0	12.0	11.4	10.0	6.5	7.0	6.6	6.3
16.....	8.3	14.0	13.5	.....	7.7	10.6	10.0	15.0	6.0	7.1	6.6	6.3
17.....	7.2	21.7	12.5	.....	7.5	10.3	9.8	15.0	15.0	7.2	6.4	6.3
18.....	6.7	27.7	11.0	.....	7.3	10.1	9.2	15.0	20.0	12.0	6.4	6.3
19.....	6.5	26.0	9.7	.....	7.1	9.7	9.0	18.3	16.5	10.0	7.0	6.3
20.....	6.3	20.6	9.0	.....	7.0	9.6	8.7	17.5	11.0	8.0	9.0	6.3
21.....	6.7	15.6	8.5	.....	6.9	9.8	8.4	11.0	8.0	7.5	8.2	6.2
22.....	7.6	14.0	25.0	.....	6.8	10.0	8.1	9.0	7.0	7.0	7.0	6.0
23.....	7.3	13.0	28.2	.....	6.4	10.3	8.3	8.0	6.2	6.5	6.8	6.0
24.....	7.1	12.0	29.3	.....	6.3	12.7	8.0	7.9	6.0	6.4	6.4	6.0
25.....	7.0	11.5	30.4	.....	6.2	14.5	7.8	7.4	6.0	7.0	6.4	6.4
26.....	6.8	10.0	27.7	.....	6.1	12.0	7.6	7.0	6.0	6.5	6.4	6.5
27.....	6.6	9.5	20.7	.....	6.0	11.4	7.5	6.4	6.0	6.4	6.3	7.5
28.....	6.9	12.0	16.0	.....	5.9	11.2	7.3	6.0	6.0	6.2	6.0	7.0
29.....	10.5	.....	14.0	.....	9.3	11.5	7.0	6.0	6.0	6.2	6.0	6.5
30.....	10.2	.....	23.2	.....	9.6	10.5	6.9	6.0	5.8	6.2	6.0	6.6
31.....	8.7	.....	27.6	.....	9.7	.....	9.5	6.0	.....	6.2	.....	6.5
<b>Means.</b>	<b>10.4</b>	<b>17.5</b>	<b>18.5</b>	<b>.....</b>	<b>7.9</b>	<b>14.4</b>	<b>9.0</b>	<b>9.6</b>	<b>8.2</b>	<b>6.7</b>	<b>7.0</b>	<b>6.3</b>

## Santee River System—WATEREE RIVER, CAMDEN, S. C.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	6.4	6.2	10.0	8.0	6.6	6.0	15.7	8.0	6.5	3.0	3.2	3.7
2.....	6.3	8.2	9.6	7.5	6.2	7.8	14.0	10.0	6.3	3.0	4.2	3.8
3.....	6.3	8.0	10.0	7.0	6.0	13.5	10.0	15.0	8.0	3.3	4.0	4.9
4.....	6.2	7.0	9.5	7.0	6.0	11.0	7.0	15.5	9.5	3.0	4.2	7.1
5.....	6.1	6.5	9.6	7.0	6.0	9.5	7.0	12.0	8.8	3.3	5.8	5.5
6.....	6.0	7.5	9.0	6.5	5.8	8.0	6.0	13.0	13.0	3.4	7.4	10.0
7.....	6.0	7.0	8.4	6.5	8.0	7.0	6.0	13.0	13.0	3.4	5.1	14.1
8.....	5.8	7.5	15.0	7.0	7.0	7.5	6.5	15.5	8.9	3.2	6.2	11.1
9.....	5.7	10.5	20.6	7.0	6.5	9.9	6.5	24.5	6.4	3.3	5.2	8.1
10.....	5.8	10.3	18.0	7.0	6.6	7.0	6.0	23.6	5.6	3.5	4.7	6.5
11.....	5.9	10.0	13.5	7.0	10.0	7.0	6.8	18.0	5.4	3.5	4.5	5.5
12.....	6.0	10.0	11.0	7.5	11.9	6.5	6.0	18.5	8.9	3.9	4.3	5.0
13.....	6.0	9.0	10.0	7.0	10.0	6.5	8.0	20.0	4.8	3.8	4.7	5.0
14.....	6.0	8.0	9.5	7.0	7.8	7.0	6.5	14.7	4.8	3.8	9.6	4.6
15.....	5.9	7.6	10.0	6.8	6.5	6.5	6.5	9.1	4.8	3.6	13.0	4.5
16.....	5.2	7.0	10.1	6.6	6.4	5.8	5.5	7.7	4.8	3.6	9.6	4.6
17.....	5.9	8.0	9.0	6.5	7.4	5.5	7.5	12.2	4.6	3.4	7.0	4.5
18.....	6.0	7.0	8.0	6.9	7.2	5.5	6.0	11.5	4.6	3.0	5.7	5.2
19.....	6.0	7.0	8.0	6.9	7.0	5.5	5.8	7.2	4.0	3.8	5.0	5.1
20.....	6.0	7.5	6.7	6.6	6.8	7.0	5.6	7.9	4.0	3.8	4.2	5.2
21.....	6.1	12.0	6.5	6.5	7.0	6.5	5.4	6.3	4.0	3.7	4.0	4.2
22.....	6.1	20.0	6.0	6.5	6.5	6.5	7.0	6.8	4.5	3.5	4.1	4.6
23.....	15.0	23.6	5.6	6.5	5.8	6.0	8.0	5.9	3.9	3.5	4.6	4.5
24.....	14.0	19.7	7.5	6.4	5.6	6.0	10.5	6.2	4.0	3.4	4.1	4.3
25.....	10.0	15.0	10.5	6.0	6.0	5.5	7.5	5.8	4.0	3.0	4.0	4.3
26.....	9.0	11.6	10.7	6.0	5.9	5.4	8.0	5.9	3.9	3.5	4.0	4.2
27.....	8.5	10.0	10.7	6.0	5.8	5.0	6.4	19.8	3.5	4.5	4.0	4.9
28.....	6.0	10.7	10.0	6.8	5.8	5.0	6.0	22.4	4.1	4.0	3.7	7.4
29.....	5.5	11.0	9.5	6.7	5.8	5.0	10.0	21.5	4.2	4.0	3.7	8.9
30.....	6.0	-----	9.0	7.0	5.6	10.0	13.0	13.4	3.8	3.9	3.8	7.0
31.....	6.0	-----	8.0	-----	5.5	-----	10.0	7.7	-----	3.6	-----	6.4
Means.	6.8	10.1	10.0	6.8	6.8	7.0	7.8	12.9	5.9	3.5	5.3	6.0

## Santee River System—CONGAREE RIVER, COLUMBIA, S. C.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	0.3	0.4	5.5	1.4	2.4	0.9	2.3	0.4	1.0	-0.2	0.1	0.8
2.....	0.3	0.3	12.7	1.5	2.3	0.8	2.1	0.5	0.8	-0.2	0.0	0.9
3.....	0.3	0.2	6.4	1.3	1.6	0.5	2.0	0.5	0.6	-0.3	0.3	0.8
4.....	0.4	0.2	3.1	1.5	2.0	1.2	1.8	0.4	0.4	-0.1	2.4	1.5
5.....	0.3	0.9	2.2	1.5	1.9	1.3	1.5	0.1	0.1	0.5	4.0	6.1
6.....	0.5	0.8	2.0	1.3	1.7	1.4	1.0	0.2	0.0	0.3	2.0	4.7
7.....	0.3	1.0	2.0	1.3	1.6	1.5	0.9	0.0	-0.1	0.1	0.5	2.1
8.....	0.4	0.9	2.2	1.3	1.5	1.3	0.9	-0.1	-0.2	0.0	0.3	1.4
9.....	0.4	0.8	5.0	1.2	1.4	2.8	1.0	0.2	-0.4	0.0	0.0	0.9
10.....	0.5	1.0	5.4	1.0	1.6	2.3	1.0	0.2	-0.5	0.0	0.0	0.9
11.....	0.6	5.5	3.6	1.1	1.5	1.6	0.9	0.2	-0.5	-0.1	0.1	0.8
12.....	2.5	11.4	2.5	1.5	1.4	1.3	0.9	0.1	-0.5	-0.1	0.0	0.6
13.....	4.3	12.5	2.0	2.0	1.1	1.1	1.0	0.4	-0.5	0.0	0.0	0.6
14.....	3.2	16.5	1.8	1.6	1.3	1.4	0.9	0.2	-0.6	0.0	0.0	1.0
15.....	2.5	15.8	1.2	1.2	1.2	1.6	0.9	0.1	0.1	0.0	0.0	1.4
16.....	2.0	11.0	4.5	1.1	1.2	1.4	0.8	0.6	1.6	0.0	-0.1	1.0
17.....	1.2	6.3	9.5	1.0	1.1	4.5	0.8	0.4	2.0	-0.1	0.0	0.9
18.....	0.9	4.5	6.8	1.8	1.2	10.2	0.7	0.2	1.8	-0.1	0.1	0.9
19.....	0.8	2.1	3.5	16.4	2.2	6.3	0.6	0.2	1.4	-0.2	0.1	0.8
20.....	1.6	1.8	2.5	17.0	1.6	3.3	0.6	0.2	1.2	-0.2	0.2	1.0
21.....	1.7	1.6	4.3	13.0	1.3	1.9	0.5	0.0	0.8	-0.3	0.4	2.2
22.....	1.5	4.3	2.6	19.0	1.1	1.5	0.6	0.2	0.6	0.0	0.3	4.0
23.....	1.3	6.2	2.1	20.6	1.0	2.4	0.5	0.0	0.5	0.5	0.5	2.9
24.....	1.0	3.7	2.0	12.0	1.2	8.2	0.4	1.4	0.3	0.3	0.3	1.6
25.....	0.8	3.5	3.5	10.2	2.0	7.5	0.4	0.3	0.1	0.1	0.4	1.0
26.....	0.6	2.6	8.0	8.2	2.8	4.8	0.3	0.6	0.0	1.8	1.0	0.8
27.....	0.6	2.1	7.0	4.7	2.3	3.6	0.5	0.4	0.0	1.2	0.9	0.6
28.....	0.5	1.7	3.8	3.6	1.5	3.1	0.4	0.3	-0.1	0.8	1.0	0.5
29.....	0.7	-----	2.5	2.7	1.2	2.8	0.5	0.0	-0.1	0.4	1.0	0.4
30.....	0.4	-----	2.1	2.6	1.4	2.5	1.0	0.4	-0.2	0.2	0.9	0.6
31.....	0.4	-----	1.8	-----	1.0	-----	0.6	1.5	-----	0.0	-----	4.1
Means.	1.1	4.3	4.1	5.2	1.6	2.8	0.9	0.3	0.3	0.1	0.6	1.5

\* 22.0 during night 22d and 23d.



## DESCRIPTION OF RIVER GAGES, ETC.

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## SANTEE RIVER SYSTEM—CONGAREE RIVER, COLUMBIA, S. C.—Continued

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	3.8	1.7	0.3	2.7	1.7	3.9	1.9	1.5	12.0	3.1	1.1	1.0
2.....	3.0	1.3	0.2	2.1	1.6	3.4	1.9	1.4	12.6	2.5	1.2	1.0
3.....	3.5	1.4	0.3	19.7	1.3	2.7	1.7	1.3	9.5	3.0	1.0	0.9
4.....	4.3	10.7	0.2	22.0	1.0	2.0	1.5	1.1	5.9	3.3	1.3	0.9
5.....	2.8	11.7	0.1	16.9	0.9	1.8	1.2	1.0	3.5	2.6	1.1	0.9
6.....	1.9	8.0	0.1	11.6	1.0	1.7	1.0	1.1	3.0	2.1	1.4	1.4
7.....	1.0	4.0	0.0	5.3	1.0	2.0	1.1	10.2	2.8	2.0	1.2	1.3
8.....	0.6	2.0	0.0	2.8	0.9	2.1	1.0	10.5	2.5	1.9	1.2	0.9
9.....	0.4	3.3	0.0	2.0	0.9	2.2	1.8	5.2	2.5	1.9	1.3	1.1
10.....	0.4	4.0	-0.2	1.3	0.8	2.0	2.1	3.1	2.3	1.9	1.0	1.0
11.....	0.6	3.4	-0.2	0.7	0.8	2.3	2.1	2.1	2.3	1.8	1.2	1.1
12.....	1.5	2.2	3.0	1.3	0.9	1.9	2.0	5.0	2.2	1.7	1.0	1.2
13.....	2.0	2.0	3.3	1.2	1.0	1.9	1.5	2.5	2.2	2.2	1.0	1.2
14.....	5.1	2.0	1.8	3.2	0.9	4.4	1.3	2.7	2.8	4.3	1.0	1.1
15.....	3.6	1.3	1.0	6.6	0.8	10.0	1.5	6.0	2.3	3.5	1.1	1.5
16.....	2.0	1.0	0.6	4.2	0.9	12.8	2.0	12.8	2.3	2.0	1.0	11.5
17.....	2.1	1.1	0.5	2.3	0.8	14.6	1.8	17.3	2.2	1.8	0.8	8.8
18.....	3.0	1.0	0.4	2.0	0.8	14.0	1.8	17.8	12.0	1.7	1.0	3.5
19.....	1.8	0.9	0.2	2.0	0.9	9.6	2.3	15.1	19.9	1.5	0.9	1.9
20.....	1.4	0.9	0.2	14.2	3.3	4.5	4.2	11.6	18.4	1.4	0.9	1.7
21.....	1.0	0.8	0.6	17.5	5.5	3.5	3.0	6.5	14.1	1.5	1.2	1.5
22.....	1.0	0.6	0.4	13.0	17.5	2.6	2.0	5.0	8.0	1.3	1.0	1.3
23.....	0.5	0.5	0.4	5.5	18.2	2.9	1.5	5.0	3.0	1.4	1.0	1.3
24.....	0.9	0.8	0.5	3.2	22.0	3.0	1.2	8.2	2.5	1.4	0.9	1.4
25.....	1.4	0.7	0.8	3.0	12.1	3.2	0.9	11.1	2.5	1.4	1.3	1.7
26.....	1.2	0.6	5.1	2.6	6.4	2.5	0.9	7.2	2.3	1.3	1.5	1.7
27.....	1.0	0.5	16.2	2.4	5.6	2.9	0.5	4.6	2.1	1.0	1.1	1.5
28.....	1.2	0.3	18.1	2.3	5.6	2.6	2.6	11.7	2.0	1.4	1.1	2.6
29.....	1.2	.....	12.5	2.1	4.4	2.1	1.6	14.2	2.0	1.2	1.0	12.8
30.....	1.0	.....	7.7	1.9	3.3	2.0	1.5	14.7	2.8	1.3	0.9	17.5
31.....	1.6	.....	3.0	.....	2.4	.....	1.3	14.2	.....	1.0	.....	21.6
Means.	1.8	2.5	2.5	5.9	4.0	4.2	1.7	7.5	5.5	1.9	1.1	3.5
<b>1902</b>												
1.....	19.0	10.5	16.2	5.8	1.8	0.7	1.0	1.0	0.5	0.7	1.0	4.9
2.....	12.6	17.9	22.0	3.7	1.8	1.0	0.8	0.9	0.8	1.7	0.3	6.6
3.....	7.2	21.7	18.5	3.2	1.8	0.9	0.7	1.2	0.4	1.2	0.7	8.0
4.....	3.2	19.3	13.8	2.8	1.7	1.0	0.0	0.8	0.8	0.6	0.5	11.2
5.....	2.9	13.9	8.5	2.7	1.6	0.9	1.2	0.7	1.2	2.3	0.7	9.1
6.....	2.8	7.4	4.3	2.4	1.5	0.8	-1.5	0.9	1.5	2.6	0.8	5.6
7.....	2.6	3.2	3.8	2.6	1.5	0.7	-1.5	0.6	0.5	2.0	1.1	3.0
8.....	2.5	3.1	3.4	4.0	1.7	1.0	0.5	0.6	0.8	1.5	1.3	2.0
9.....	2.6	2.6	3.3	3.5	1.6	1.2	0.6	0.6	1.1	1.0	0.9	1.8
10.....	2.5	2.8	3.5	3.1	1.6	0.8	1.3	0.8	3.4	0.8	1.0	1.6
11.....	2.2	2.4	3.3	3.0	1.5	0.9	1.2	1.4	5.8	1.5	0.7	1.5
12.....	2.2	2.4	3.0	2.3	1.8	0.6	1.1	1.0	3.0	1.2	0.7	1.3
13.....	2.1	2.4	3.0	2.1	1.6	0.6	0.9	0.7	1.5	1.4	0.7	3.8
14.....	1.8	2.3	3.6	2.3	1.4	0.1	1.7	0.8	0.7	1.5	0.5	3.5
15.....	1.8	2.4	3.2	1.8	1.6	0.0	1.1	2.3	0.9	1.3	0.5	2.0
16.....	1.8	2.0	3.2	2.4	1.7	4.2	0.9	3.5	0.8	1.5	-0.2	1.5
17.....	1.8	2.2	10.1	2.2	1.7	12.1	0.6	1.9	0.7	1.1	0.6	1.5
18.....	1.8	2.6	11.1	3.2	1.6	9.6	0.9	1.8	0.7	0.7	1.2	2.5
19.....	1.5	2.4	7.5	3.1	1.5	3.5	0.8	1.0	0.5	-0.2	2.5	2.6
20.....	1.8	2.6	4.2	3.0	1.4	1.8	0.6	0.8	0.6	0.7	2.0	2.0
21.....	1.9	2.6	3.4	3.4	2.0	1.4	0.6	0.8	0.3	0.4	1.4	1.4
22.....	3.1	4.5	3.1	3.1	1.8	0.4	0.7	0.8	0.7	0.4	1.0	2.6
23.....	2.9	5.3	3.0	2.1	1.4	0.5	0.5	1.0	0.5	0.6	0.2	5.8
24.....	2.1	5.4	3.0	2.1	1.1	0.1	0.7	1.0	0.5	0.6	1.0	3.3
25.....	1.8	5.4	2.7	2.0	1.1	1.2	0.8	1.0	0.6	0.4	0.7	1.8
26.....	1.8	8.4	2.9	1.9	1.2	1.2	0.5	0.9	0.5	-0.2	3.7	1.6
27.....	1.9	7.2	2.6	1.8	1.1	1.4	0.7	0.3	0.5	0.7	3.8	1.4
28.....	1.5	7.2	2.5	1.9	1.0	1.9	0.5	0.7	0.8	8.5	2.0	0.8
29.....	2.1	.....	4.3	1.6	0.8	1.4	0.5	1.5	1.5	5.5	1.4	1.3
30.....	3.7	.....	10.1	1.7	1.1	1.2	1.5	1.2	0.7	1.6	0.6	1.0
31.....	3.0	.....	9.5	.....	1.9	.....	1.7	0.4	.....	1.0	.....	1.5
Means.	3.3	6.1	6.3	2.7	1.5	1.8	0.6	1.1	1.1	1.4	1.1	3.2

## DESCRIPTION OF RIVER GAGES, ETC.

## SANTEE RIVER SYSTEM—CONGAREE RIVER, COLUMBIA, S. C.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	1.5	2.5	14.0	16.6	2.0	2.3	2.5	1.0	1.2	0.5	0.0	-0.1
2.....	1.5	2.0	13.5	10.2	2.0	6.0	2.4	3.5	2.0	0.4	0.0	-0.1
3.....	4.3	2.0	7.9	5.8	2.0	9.9	2.6	4.5	2.0	0.4	0.4	-0.2
4.....	10.3	2.9	5.0	4.4	2.9	6.4	2.4	4.0	1.1	0.4	1.5	-0.2
5.....	8.2	1.6	3.3	4.0	2.7	9.4	2.4	3.5	0.9	0.5	1.3	-0.2
6.....	5.8	6.0	2.6	3.9	2.5	7.5	2.8	3.0	0.7	0.5	1.6	-0.1
7.....	3.1	3.8	3.0	3.5	2.5	19.3	3.0	3.0	0.7	0.4	1.7	-0.1
8.....	3.5	19.3	3.2	3.5	2.3	26.6	3.0	2.8	0.7	0.6	1.3	-0.1
9.....	2.0	20.5	4.9	5.3	2.0	a 19.5	2.8	3.2	0.8	0.8	0.8	-0.1
10.....	1.7	17.0	5.4	7.3	2.5	14.8	2.3	1.5	0.8	0.9	0.6	-0.1
11.....	2.0	11.3	3.9	5.5	2.2	9.5	2.0	1.2	1.0	0.9	0.4	-0.1
12.....	2.7	17.5	4.4	4.3	2.0	10.9	2.0	1.2	0.9	0.8	0.4	-0.1
13.....	3.8	15.8	6.0	3.7	2.0	6.6	2.0	1.0	0.7	0.7	0.4	-0.1
14.....	4.0	10.5	4.9	10.0	2.0	3.5	3.8	0.9	0.7	0.7	0.2	-0.1
15.....	2.0	6.5	4.0	13.1	2.0	2.5	3.5	6.0	1.0	0.7	0.0	-0.1
16.....	1.6	3.8	3.0	10.8	2.0	3.3	3.2	4.2	1.0	0.6	-0.1	0.0
17.....	1.5	12.7	2.9	8.0	1.9	3.0	2.0	4.0	2.2	0.8	-0.1	-0.1
18.....	1.3	16.7	2.7	6.2	1.9	3.0	2.0	5.5	1.5	1.8	-0.1	-0.1
19.....	1.5	12.4	2.5	3.7	1.7	2.7	2.0	5.8	1.0	1.5	0.1	-0.2
20.....	1.4	8.8	2.4	3.7	1.7	3.0	1.8	6.0	0.8	1.3	0.4	-0.3
21.....	1.6	5.2	2.4	3.3	1.7	2.6	1.5	4.3	0.8	1.3	0.4	-0.1
22.....	1.6	3.0	12.9	3.5	1.6	2.6	1.5	4.0	0.8	1.0	0.2	-0.1
23.....	1.7	2.3	18.0	3.4	1.6	3.5	1.8	3.5	0.6	1.0	0.1	-0.1
24.....	1.7	2.7	22.2	3.0	1.6	3.2	1.6	3.0	0.9	0.8	0.0	-0.1
25.....	1.0	2.7	22.8	3.4	1.5	2.9	1.3	2.5	0.9	0.8	0.0	-0.1
26.....	0.9	2.5	12.5	3.0	1.3	3.3	1.3	1.8	1.0	0.8	0.0	0.4
27.....	1.2	2.5	7.3	4.5	1.5	3.1	1.3	1.8	1.0	0.8	0.0	0.0
28.....	1.4	3.8	4.0	4.2	1.5	2.8	1.3	1.5	0.9	0.7	-0.1	0.0
29.....	2.7	.....	3.5	3.0	3.2	2.8	0.9	1.2	0.7	0.5	-0.1	-0.1
30.....	3.1	.....	16.0	2.5	2.0	2.5	0.8	0.9	0.7	0.3	-0.1	-0.1
31.....	2.8	.....	19.4	.....	2.5	.....	0.8	0.9	.....	0.1	.....	-0.1
Means.	2.7	7.8	7.8	5.6	2.0	6.6	2.1	2.9	1.0	0.8	0.4	-0.1
<b>1904</b>												
1.....	-0.1	0.0	1.0	1.6	-0.2	.....	0.5	0.2	0.8	-2.0	-0.3	-0.7
2.....	-0.1	0.0	1.0	1.6	-0.2	.....	0.5	0.2	0.4	-2.6	-0.3	-0.7
3.....	0.0	0.0	0.7	1.6	-0.2	.....	0.5	4.3	0.4	-2.6	-0.3	-0.5
4.....	0.0	0.0	0.7	1.6	-0.7	.....	0.4	2.7	0.4	-2.6	-0.2	-0.5
5.....	0.0	0.0	0.7	1.6	-0.7	.....	0.2	4.0	0.4	-3.0	-0.1	-0.4
6.....	0.0	0.0	0.7	1.6	-0.7	.....	0.2	3.4	1.0	-3.0	-0.1	-0.1
7.....	0.0	0.0	0.7	1.0	-0.7	.....	0.2	1.0	0.4	-3.0	-0.1	3.0
8.....	0.0	2.0	4.0	1.0	-1.0	.....	0.2	4.5	0.4	-3.0	0.0	3.8
9.....	0.0	2.0	6.5	1.0	-0.8	.....	0.2	11.0	0.4	-3.0	0.0	2.0
10.....	0.0	1.7	3.3	1.0	-0.8	.....	0.2	12.2	0.4	-3.0	0.0	1.2
11.....	0.0	2.2	2.0	1.0	-0.8	.....	0.2	10.2	0.4	-3.0	0.0	1.0
12.....	0.0	1.7	1.5	1.0	-0.8	.....	0.2	7.8	0.2	-2.6	0.0	1.1
13.....	0.0	0.7	1.0	1.0	-0.8	.....	0.2	4.1	0.2	-2.6	0.0	0.7
14.....	0.0	0.7	1.0	0.6	-0.8	.....	0.2	1.6	0.2	-2.6	0.0	0.5
15.....	0.0	0.7	1.0	0.6	-0.8	.....	0.2	1.0	0.2	-2.6	0.3	0.5
16.....	0.0	0.7	1.0	0.3	-0.8	.....	0.1	2.3	0.2	-2.5	0.1	0.9
17.....	0.0	0.7	1.0	0.3	-0.8	.....	0.1	2.3	0.2	-2.4	0.0	1.0
18.....	0.0	0.7	1.0	0.3	-0.8	.....	0.1	2.0	0.2	-2.4	-0.2	1.2
19.....	0.0	0.7	1.0	0.3	-0.8	.....	0.1	0.8	0.1	-2.4	-0.3	1.0
20.....	0.0	0.7	1.0	0.3	-0.8	.....	0.0	0.8	0.1	-2.4	-0.4	0.9
21.....	0.0	2.9	1.0	0.3	-1.0	.....	0.0	0.4	0.0	-2.4	-0.4	0.8
22.....	0.0	7.7	1.0	0.3	-1.0	.....	0.1	0.4	0.0	-2.0	-0.6	0.7
23.....	3.5	9.6	1.0	0.3	-1.0	.....	1.2	0.4	-0.5	-1.5	-0.4	0.7
24.....	3.4	6.6	1.0	0.3	-1.0	.....	1.9	0.4	-0.7	-1.0	-0.3	0.5
25.....	1.5	3.1	1.9	0.0	-1.0	.....	1.9	0.4	-1.0	-0.4	-0.2	0.5
26.....	0.7	2.0	1.6	0.0	-1.4	.....	1.0	0.4	-1.0	-0.4	-0.3	0.9
27.....	0.2	1.5	1.6	0.0	-1.4	.....	1.0	0.6	-1.0	-0.3	-0.3	0.8
28.....	0.0	1.5	1.6	0.3	-1.4	.....	0.2	9.7	-1.0	-0.3	-0.4	0.8
29.....	0.0	1.5	1.6	0.0	-1.4	.....	0.2	9.1	-1.2	-0.3	-0.5	0.9
30.....	0.0	.....	1.6	0.0	-1.4	.....	0.2	5.2	-1.4	-0.3	-0.6	0.8
31.....	0.0	.....	1.6	.....	-1.4	.....	0.2	1.8	.....	-0.3	.....	0.9
Means.	0.3	1.8	1.5	0.7	-0.9	.....	0.4	3.4	0.0	-2.0	-0.2	0.8

• Maximum stage 27.2.

## SANTÉE RIVER SYSTEM—SANTÉE RIVER, ST. STEPHENS, S. C.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	7.3	4.6	9.0	8.6	14.8	6.5	8.7	6.4	1.0	-0.4	6.4	7.0
2.....	7.1	3.9	8.9	8.7	13.8	5.9	9.0	6.6	1.5	-0.5	5.5	7.2
3.....	6.4	3.6	8.9	8.8	12.5	5.1	9.2	6.7	2.2	-0.5	4.5	7.4
4.....	5.4	3.0	8.9	8.9	11.2	4.4	9.3	6.7	2.7	0.0	4.0	7.5
5.....	3.9	2.7	8.9	8.8	10.0	4.1	9.2	6.2	2.4	-0.2	3.8	7.5
6.....	2.9	2.6	8.9	8.6	9.2	4.5	8.9	5.4	1.7	-0.3	5.8	7.3
7.....	2.4	3.2	8.9	8.5	8.7	5.0	8.7	4.1	0.9	0.4	6.7	7.4
8.....	2.4	4.2	8.9	8.3	8.5	5.6	8.5	2.9	0.4	0.9	7.1	7.6
9.....	2.7	4.9	9.6	8.2	8.3	5.6	8.4	2.1	0.2	1.1	7.2	7.6
10.....	2.8	5.2	10.3	8.1	8.1	5.6	8.3	1.6	-0.1	1.5	7.4	7.8
11.....	2.7	5.5	10.5	7.9	7.9	5.9	8.0	1.1	-0.3	1.8	7.4	7.8
12.....	2.7	5.8	10.3	7.7	7.6	6.3	7.7	1.0	-0.5	1.8	7.4	7.9
13.....	3.4	6.6	9.8	7.4	7.2	6.5	7.2	0.8	-0.7	2.0	7.1	7.9
14.....	5.1	7.0	9.4	7.0	6.8	6.2	6.4	0.4	-0.9	1.8	6.6	8.0
15.....	6.3	7.3	9.1	7.0	6.4	5.8	5.7	0.2	-1.1	1.4	5.8	8.0
16.....	6.8	7.5	8.9	7.0	5.8	5.2	5.5	0.2	-1.1	1.9	4.8	7.9
17.....	7.1	7.6	8.8	7.0	5.3	5.1	5.6	0.1	-1.0	2.7	4.1	7.9
18.....	7.3	7.8	8.8	6.9	4.9	5.3	5.4	-0.1	3.0	2.2	3.5	7.8
19.....	7.4	8.2	8.8	6.8	4.8	6.1	4.9	0.2	5.2	1.0	2.9	7.5
20.....	7.6	9.0	8.6	6.9	4.9	6.6	4.0	0.3	5.8	0.4	2.3	7.0
21.....	7.6	11.2	8.5	7.1	5.7	7.0	3.5	0.6	5.8	0.2	2.1	6.5
22.....	7.5	12.4	8.5	7.4	6.3	7.2	2.9	0.9	5.0	0.0	1.9	6.0
23.....	7.4	12.4	8.4	7.6	6.7	7.3	2.6	0.6	4.0	-0.2	2.9	6.7
24.....	7.4	11.9	8.6	7.8	6.7	7.5	2.3	0.2	1.7	-0.3	3.2	7.3
25.....	7.4	11.2	8.9	8.3	6.5	7.8	2.4	0.2	0.7	-0.3	3.2	7.5
26.....	7.4	10.4	9.1	10.5	6.0	8.1	3.0	0.4	0.3	-0.3	3.0	7.6
27.....	7.3	9.7	9.1	13.3	5.7	8.3	3.5	1.4	0.0	3.4	2.6	7.7
28.....	7.0	9.2	9.0	15.0	6.3	8.5	4.4	2.2	-0.4	5.9	3.1	7.8
29.....	6.7	.....	8.8	15.5	6.7	8.6	4.9	1.8	-0.4	6.5	5.7	7.9
30.....	6.0	.....	8.7	15.3	6.8	8.6	5.5	1.6	-0.4	6.7	6.5	8.0
31.....	5.3	.....	8.7	.....	6.8	.....	6.2	1.2	.....	6.7	.....	8.2
Means	5.7	7.1	9.0	8.8	7.6	6.3	6.1	2.1	1.3	1.5	4.8	7.5
1901												
1.....	8.3	7.6	6.0	7.7	11.6	15.8	9.1	7.2	10.6	9.3	5.0	4.8
2.....	8.5	7.4	5.7	8.3	10.6	15.0	8.9	6.9	10.8	8.8	5.0	4.3
3.....	8.6	7.4	5.4	9.8	9.6	14.1	8.7	6.4	11.0	8.6	5.0	4.2
4.....	8.6	7.4	5.0	12.3	9.0	13.1	8.5	5.9	11.4	8.4	4.9	4.0
5.....	8.5	7.4	4.6	12.6	8.7	12.0	8.6	5.9	11.8	8.2	4.9	4.0
6.....	8.5	7.4	4.4	12.2	8.5	11.0	9.5	5.6	12.2	8.2	4.9	4.0
7.....	8.6	7.5	4.2	11.8	8.5	10.0	8.7	5.1	12.1	8.1	4.9	4.5
8.....	8.7	7.6	4.0	11.1	8.2	9.6	8.4	5.2	11.9	8.0	4.8	4.9
9.....	8.7	7.8	4.0	12.6	8.0	9.1	8.3	6.4	11.7	8.0	4.9	5.3
10.....	8.7	8.0	3.9	14.4	7.8	8.8	8.2	6.9	11.0	8.0	4.9	5.1
11.....	8.7	8.1	3.7	15.0	7.5	8.6	8.0	7.1	10.2	8.0	4.8	4.8
12.....	8.7	8.5	4.0	14.5	7.2	8.6	7.9	7.4	9.5	7.9	4.7	4.6
13.....	8.6	8.9	4.5	13.5	7.0	8.4	7.7	7.6	9.0	7.8	4.6	4.5
14.....	8.4	9.2	5.8	12.5	6.7	8.4	7.7	8.3	8.7	7.7	4.5	4.7
15.....	8.1	9.3	6.6	11.0	6.6	8.4	7.6	9.4	8.4	7.5	4.3	5.0
16.....	8.0	9.2	7.0	9.8	6.4	8.4	7.5	10.4	8.2	7.4	4.3	5.3
17.....	7.9	9.1	7.0	9.1	6.1	8.4	7.4	10.3	8.2	7.4	4.3	6.0
18.....	7.9	8.9	7.1	8.7	5.7	8.3	7.3	9.9	8.2	7.4	4.4	6.7
19.....	7.9	8.7	7.0	7.7	5.4	8.2	7.3	9.5	8.1	7.5	4.3	7.1
20.....	8.0	8.6	6.5	8.5	5.2	8.2	7.3	9.1	8.0	7.4	4.2	7.4
21.....	8.1	8.5	6.0	8.5	5.4	8.3	7.3	9.0	7.9	7.4	4.1	7.6
22.....	8.2	8.2	5.3	8.6	6.7	8.7	7.4	9.6	7.9	7.3	4.0	7.7
23.....	8.4	8.0	5.0	8.7	7.3	10.1	7.5	11.6	8.0	7.2	4.0	7.9
24.....	8.5	7.6	4.8	8.7	7.6	11.3	7.6	13.0	8.5	6.9	4.1	8.0
25.....	8.7	7.2	4.6	8.7	7.7	11.7	7.6	13.6	10.8	6.6	4.3	8.3
26.....	8.6	6.7	4.5	9.3	7.8	11.5	7.7	13.5	12.2	6.2	4.3	8.5
27.....	8.5	6.5	5.0	11.6	8.0	10.9	7.7	12.9	12.5	6.0	4.7	8.7
28.....	8.3	6.2	6.0	12.6	9.2	10.3	7.7	12.0	12.0	5.7	5.3	8.7
29.....	8.1	.....	7.0	13.1	13.5	9.6	7.6	11.1	11.0	5.5	5.5	8.6
30.....	8.0	.....	7.1	12.5	15.4	9.2	7.4	10.5	10.0	5.3	5.2	8.5
31.....	7.9	.....	7.5	.....	16.0	.....	7.3	10.6	.....	5.1	.....	8.5
Means	8.4	8.0	5.5	10.8	8.4	10.1	7.9	9.0	10.1	7.4	4.6	6.2

## SANTEE RIVER SYSTEM—SANTEE RIVER, ST. STEPHENS, S. C.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	8.3	7.6	8.3	8.4	7.5	4.6	8.0	3.3	4.0	3.0	7.0	7.5
2.....	8.1	7.8	8.5	8.3	7.3	4.1	7.7	3.9	3.6	3.0	7.4	7.6
3.....	8.2	7.9	8.6	8.2	7.1	3.9	7.2	3.9	2.6	2.4	7.4	7.6
4.....	8.6	7.9	9.0	8.2	7.1	3.9	6.2	3.8	1.9	3.5	7.3	7.8
5.....	10.7	8.0	9.6	8.5	7.0	3.7	5.1	4.5	1.6	4.0	7.0	8.0
6.....	14.2	8.1	11.0	8.7	6.9	3.4	4.2	4.5	1.0	3.8	6.1	8.0
7.....	15.2	8.7	13.6	9.0	6.8	3.3	3.3	3.8	2.5	4.1	5.0	8.0
8.....	15.0	12.0	14.9	9.2	6.6	3.1	2.7	2.9	3.9	5.9	4.3	8.2
9.....	14.1	14.0	15.0	9.1	6.3	3.0	2.3	2.6	4.7	6.6	4.1	8.4
10.....	12.7	14.7	14.3	8.7	6.0	3.5	2.6	2.3	4.0	6.9	4.8	8.7
11.....	11.4	14.0	13.0	8.7	5.9	4.3	2.9	1.8	3.6	7.0	5.2	9.2
12.....	10.3	12.9	11.6	8.6	5.8	4.4	3.7	2.0	5.6	6.9	5.1	10.0
13.....	9.3	11.6	10.4	8.5	5.7	4.0	4.2	2.6	6.6	6.4	4.3	10.1
14.....	8.9	10.4	9.6	8.4	5.7	3.5	4.8	2.8	7.0	6.5	3.6	9.7
15.....	8.7	9.5	9.0	8.4	5.7	3.0	4.9	2.9	7.1	6.7	3.0	9.4
16.....	8.5	9.0	8.8	8.3	5.5	2.6	5.4	2.9	7.3	6.8	2.7	9.1
17.....	8.3	8.7	8.7	8.3	5.5	2.8	5.3	3.9	7.3	6.8	2.2	8.9
18.....	8.1	8.5	8.7	8.2	6.0	5.2	4.8	6.2	7.1	6.8	2.2	8.7
19.....	7.9	8.3	8.5	8.2	6.5	6.4	4.3	6.7	6.2	6.5	2.2	8.6
20.....	7.7	8.2	8.5	8.1	6.5	6.9	4.0	6.9	5.2	5.6	2.7	8.5
21.....	7.5	8.1	8.5	8.0	6.4	7.2	3.9	7.1	4.0	4.4	5.3	8.5
22.....	7.3	8.0	8.5	7.9	6.4	7.4	2.9	7.1	3.0	3.3	6.4	8.4
23.....	7.1	7.9	8.6	7.9	6.4	7.6	2.0	6.4	2.5	2.6	6.7	8.4
24.....	7.1	7.9	8.8	7.9	6.4	7.8	1.7	5.7	2.3	1.9	6.6	8.3
25.....	7.2	7.9	9.0	7.9	6.3	8.2	1.5	5.4	1.9	1.8	6.1	8.2
26.....	7.4	7.9	9.2	7.9	6.2	8.5	1.8	5.4	1.5	1.7	5.5	8.2
27.....	7.5	8.0	9.0	7.9	5.7	8.7	2.3	5.2	1.5	1.6	4.7	8.2
28.....	7.6	8.1	8.7	7.9	5.4	8.7	4.2	4.4	1.5	1.7	5.6	8.2
29.....	7.6	.....	8.7	7.8	5.3	8.5	4.2	3.2	1.6	2.3	6.6	8.2
30.....	7.6	.....	8.6	7.7	5.3	8.2	3.2	2.3	2.0	5.6	7.0	8.2
31.....	7.6	.....	8.5	.....	5.0	.....	2.5	3.0	.....	6.6	.....	8.3
<b>Means.</b>	<b>9.2</b>	<b>9.3</b>	<b>9.9</b>	<b>8.3</b>	<b>6.2</b>	<b>5.3</b>	<b>4.0</b>	<b>4.2</b>	<b>3.8</b>	<b>4.6</b>	<b>5.1</b>	<b>8.5</b>
<b>1903</b>												
1.....	8.3	7.4	9.8	15.2	8.5	6.5	8.1	2.5	6.4	2.5	1.5	1.8
2.....	8.3	7.6	9.3	14.1	8.4	6.9	8.1	3.4	5.6	2.0	1.5	1.7
3.....	8.2	7.6	9.0	12.7	8.3	7.0	8.1	4.1	5.3	1.7	1.6	1.7
4.....	8.0	7.7	8.8	11.7	8.3	7.2	8.0	5.5	5.9	1.5	1.7	1.7
5.....	7.8	7.7	8.7	12.0	8.3	7.3	7.9	6.3	6.5	1.5	1.9	1.7
6.....	7.7	7.7	8.7	12.8	8.2	7.5	7.9	6.9	6.2	1.4	2.8	1.7
7.....	7.7	7.7	9.0	13.0	8.2	7.6	7.7	7.2	5.6	1.4	4.0	1.7
8.....	7.8	7.7	10.0	12.5	8.1	7.8	7.6	7.3	4.8	1.4	5.5	1.7
9.....	7.9	7.8	10.6	11.7	8.0	7.9	7.5	7.3	3.8	1.1	6.2	1.7
10.....	8.0	7.9	10.4	10.7	8.0	8.3	7.5	7.3	3.3	1.2	6.3	1.7
11.....	8.2	8.0	9.9	9.8	7.8	8.7	7.5	7.3	2.7	1.3	5.7	1.7
12.....	8.7	8.1	9.5	9.3	7.7	10.4	7.5	7.1	3.1	1.4	4.6	1.7
13.....	9.3	8.6	9.1	9.0	7.6	13.4	7.4	6.8	4.3	2.7	3.6	2.0
14.....	9.5	10.6	9.0	8.9	7.5	14.6	7.3	6.9	4.8	2.1	3.0	2.2
15.....	9.3	13.3	8.9	8.8	7.4	15.0	7.3	7.0	4.5	2.5	2.6	2.2
16.....	9.0	14.1	8.8	8.8	7.2	14.6	7.3	7.2	3.8	1.8	2.6	2.0
17.....	8.8	14.5	8.8	8.9	7.1	13.8	7.4	7.3	3.6	1.5	2.6	2.0
18.....	8.6	14.6	8.8	9.0	7.0	12.8	7.5	7.6	4.5	1.5	2.4	1.9
19.....	8.7	14.2	8.9	9.1	6.9	11.8	7.5	7.6	6.2	2.0	2.1	1.9
20.....	8.5	13.5	9.0	9.4	6.8	10.4	7.4	7.7	6.9	4.0	1.9	1.9
21.....	8.5	12.5	9.0	10.3	6.6	9.6	7.1	7.8	7.2	5.6	2.1	1.9
22.....	8.5	11.8	9.0	10.7	6.2	9.0	6.7	7.9	7.3	5.5	3.5	1.9
23.....	8.3	11.4	8.9	10.6	6.0	8.7	6.1	8.0	7.4	4.4	3.8	1.9
24.....	8.1	11.8	8.7	10.1	5.5	8.5	5.3	8.2	7.3	3.2	3.6	2.0
25.....	7.9	12.0	8.7	9.6	5.6	8.3	4.6	8.3	7.2	2.8	3.0	2.1
26.....	7.8	11.7	8.6	9.2	5.4	8.3	4.1	8.5	6.6	2.6	2.5	2.7
27.....	7.7	11.1	8.6	9.0	5.2	8.2	3.8	8.6	5.9	2.5	2.1	3.3
28.....	7.7	11.5	9.0	8.8	5.0	8.1	3.2	8.5	5.0	3.0	2.1	3.5
29.....	7.7	.....	12.5	8.6	4.8	8.1	3.0	8.3	4.0	2.6	2.2	4.0
30.....	7.6	.....	15.0	8.5	4.8	8.1	2.7	7.9	3.1	2.0	2.0	4.1
31.....	7.5	.....	15.6	.....	5.7	.....	2.5	7.3	.....	1.6	.....	3.8
<b>Means.</b>	<b>8.2</b>	<b>10.4</b>	<b>9.6</b>	<b>10.4</b>	<b>7.0</b>	<b>9.5</b>	<b>6.5</b>	<b>7.1</b>	<b>5.3</b>	<b>2.3</b>	<b>3.0</b>	<b>2.2</b>

## SANTEE RIVER SYSTEM—SANTEE RIVER, ST. STEPHENS, S. C.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	3.1	5.6	8.3	7.0	2.6	0.0	-0.3	5.9	7.6	-1.2	-1.1	0.0
2.....	2.9	4.8	8.5	6.7	2.8	0.3	-0.3	6.3	7.7	-1.2	-1.5	-0.2
3.....	2.8	4.4	8.9	6.2	2.7	0.5	3.3	6.3	7.8	-1.2	-1.4	-0.4
4.....	2.3	4.3	8.9	5.7	2.3	1.2	5.2	5.5	8.0	-1.4	-1.6	-0.2
5.....	2.1	4.5	8.9	5.1	1.9	4.0	6.0	6.3	8.3	-1.6	-1.6	0.0
6.....	2.1	4.5	8.7	4.5	1.6	5.2	5.7	6.7	8.5	-1.6	-1.7	2.0
7.....	2.0	4.0	8.6	3.9	1.6	5.3	4.4	7.0	8.6	-1.7	-1.0	3.6
8.....	1.6	3.6	8.4	3.6	2.4	5.3	2.6	7.5	8.5	-1.8	0.5	4.2
9.....	1.3	3.6	8.2	3.3	2.7	3.0	1.0	7.6	8.4	-1.8	2.0	6.3
10.....	1.5	4.0	8.0	3.5	2.9	2.4	0.8	7.7	8.2	-1.8	1.9	7.0
11.....	1.4	6.1	7.8	3.8	3.1	3.2	0.5	7.7	7.9	-1.8	1.3	7.2
12.....	1.4	6.9	7.8	4.0	2.8	3.5	0.5	7.7	7.7	-1.9	0.7	7.4
13.....	1.9	7.3	7.8	4.2	2.8	3.0	0.8	7.9	7.0	-1.9	0.3	6.8
14.....	2.1	7.6	7.8	4.3	3.4	2.4	0.9	8.0	6.3	-1.8	0.0	5.9
15.....	2.1	7.6	8.0	4.4	4.8	1.8	0.8	8.1	5.3	-1.8	0.0	4.6
16.....	2.0	7.4	8.1	4.0	4.3	2.0	1.7	8.5	3.6	-1.7	1.4	3.3
17.....	2.0	6.9	8.1	3.5	3.3	1.5	1.4	8.9	2.3	-1.7	5.0	2.7
18.....	2.0	6.0	8.1	3.3	3.0	0.9	0.9	9.4	1.5	-1.7	5.9	2.6
19.....	1.6	5.5	8.1	3.0	3.3	0.5	0.2	9.6	1.1	-1.9	5.7	2.6
20.....	1.4	5.0	8.1	3.1	3.3	0.0	1.0	9.5	0.6	-1.8	4.1	2.8
21.....	1.6	5.0	7.9	3.3	2.8	-0.2	1.1	9.2	0.2	-1.8	3.3	3.3
22.....	1.6	4.9	7.7	3.3	2.3	-0.2	0.4	9.0	0.0	-1.9	2.0	3.2
23.....	1.5	6.7	7.0	2.9	1.9	1.6	-0.3	8.8	-0.2	-1.9	1.4	2.5
24.....	3.0	7.5	6.4	2.8	1.9	2.0	0.4	8.7	-0.3	-1.8	1.0	2.2
25.....	5.2	7.7	6.0	2.4	1.9	2.4	1.3	8.4	-0.4	-1.8	0.6	2.0
26.....	6.8	7.8	5.9	2.4	1.4	1.7	4.3	8.0	-0.4	-2.2	0.4	1.7
27.....	7.3	7.9	6.6	2.4	1.0	1.0	5.6	7.5	-0.9	-2.1	0.3	1.4
28.....	7.5	8.0	7.0	2.4	0.4	0.3	5.4	6.7	-1.0	-2.1	0.6	1.4
29.....	7.3	8.1	7.2	2.4	0.2	0.0	4.0	6.7	-0.9	-2.0	0.3	1.4
30.....	7.0	.....	7.3	2.3	0.1	-0.2	2.5	7.8	-1.1	-2.1	0.2	1.7
31.....	6.2	.....	7.2	.....	0.0	.....	4.4	7.5	.....	-1.2	.....	3.9
Means.	3.1	6.0	7.8	3.8	2.3	1.8	2.1	7.8	4.0	-1.7	1.0	3.0

## SAVANNAH RIVER SYSTEM—BROAD RIVER, CARLTON, GA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	2.4	2.3	5.5	3.1	3.4	2.6	3.5	3.7	2.3	2.1	2.4	2.5
2.....	2.4	2.3	4.9	3.1	3.2	2.5	3.3	3.8	2.5	2.1	2.4	2.4
3.....	2.4	2.3	3.8	3.0	4.7	2.8	3.4	3.6	2.5	2.1	6.5	2.4
4.....	2.4	2.3	3.3	3.1	3.9	2.9	3.2	2.6	2.3	2.2	3.5	4.2
5.....	2.3	3.3	3.1	3.0	3.2	2.8	3.0	2.5	2.2	2.3	2.8	5.0
6.....	2.3	2.9	3.0	3.0	3.1	3.0	2.9	2.5	2.2	3.5	2.6	3.8
7.....	2.3	2.7	3.0	2.9	3.0	4.3	2.8	2.5	2.1	3.0	2.5	3.2
8.....	2.3	2.6	6.5	2.8	3.0	7.7	2.8	2.4	2.1	2.6	2.4	2.8
9.....	2.3	2.8	6.8	2.8	2.9	7.1	2.8	2.4	2.1	2.5	2.4	2.7
10.....	2.4	4.0	5.1	2.7	2.9	3.8	2.7	2.3	2.1	2.4	2.4	2.6
11.....	2.9	6.0	3.8	3.5	2.9	3.2	2.6	2.3	2.1	2.3	2.4	2.6
12.....	5.8	10.5	3.3	3.9	2.8	3.1	2.9	2.3	2.0	2.3	2.4	2.5
13.....	4.9	22.2	3.2	3.9	2.8	3.1	3.5	4.0	2.0	2.7	2.3	2.5
14.....	3.3	16.9	3.1	3.3	2.8	3.8	3.0	2.5	2.1	2.6	2.3	2.8
15.....	2.9	8.0	3.0	3.1	2.7	3.1	3.0	2.4	5.5	2.4	2.3	2.6
16.....	2.7	4.3	4.2	3.0	2.7	3.5	2.9	2.4	5.0	2.3	2.3	2.5
17.....	2.6	3.7	3.8	2.9	2.7	4.3	2.8	2.5	4.0	2.2	2.3	2.4
18.....	3.1	3.3	3.3	3.9	2.7	5.6	2.7	2.5	2.8	2.2	2.3	2.4
19.....	3.6	3.2	3.1	7.5	3.0	4.9	2.6	2.6	2.5	2.2	2.4	2.4
20.....	3.7	3.1	4.6	6.7	2.9	3.5	2.6	2.4	2.4	2.2	2.4	2.8
21.....	3.7	3.1	4.1	8.0	2.8	3.1	2.5	2.3	2.3	2.2	2.4	3.8
22.....	2.8	3.9	3.7	12.2	2.7	3.0	2.5	2.2	2.3	2.1	2.5	3.3
23.....	2.7	3.6	3.4	5.8	2.7	4.2	2.5	2.3	2.3	4.2	2.4	3.0
24.....	2.6	3.2	3.6	6.5	4.0	13.0	3.0	2.2	2.3	5.0	2.4	2.9
25.....	2.5	3.6	4.7	7.3	3.2	12.6	2.7	2.2	2.2	3.1	2.3	2.8
26.....	2.5	3.6	6.5	5.1	2.9	7.0	2.9	2.6	2.2	4.0	3.6	2.6
27.....	2.4	3.2	5.3	3.9	2.8	5.6	3.4	2.5	2.2	3.8	3.6	2.5
28.....	2.4	3.0	4.0	3.7	2.7	4.6	3.7	2.2	2.2	3.1	2.8	2.5
29.....	2.4	.....	3.5	3.5	2.7	4.0	3.4	2.2	2.2	2.7	2.6	2.5
30.....	2.3	.....	3.3	3.5	2.6	4.5	3.3	2.9	2.1	2.5	2.5	2.5
31.....	2.3	.....	3.2	.....	2.6	.....	3.9	2.2	.....	2.5	.....	3.8
Means.	2.8	4.9	4.1	4.4	3.0	4.6	3.0	2.6	2.5	2.7	2.7	2.9

## SAVANNAH RIVER SYSTEM—BROAD RIVER, CARLTON, GA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	2.6	3.2	2.7	3.6	2.7	4.3	3.9	2.4	5.0	2.9	2.5	2.5
2.....	3.2	2.9	2.6	3.9	2.6	3.9	3.1	2.3	3.9	2.9	2.5	2.5
3.....	3.6	3.8	2.6	12.5	2.6	3.3	3.0	2.3	3.5	4.8	2.5	3.0
4.....	3.5	7.9	2.6	9.3	2.6	3.0	2.9	2.3	3.1	2.9	2.5	3.4
5.....	3.3	6.8	2.6	4.5	2.5	2.9	2.8	2.3	3.0	2.8	2.6	3.4
6.....	2.8	4.1	2.6	3.9	2.9	2.8	2.7	2.5	2.9	2.7	2.5	2.7
7.....	2.7	3.5	2.6	3.6	2.9	3.7	2.7	2.4	2.9	2.7	2.5	2.7
8.....	2.7	3.3	2.5	3.4	2.8	3.0	2.7	4.0	2.8	2.6	2.5	2.6
9.....	2.6	4.2	2.5	3.3	2.8	2.8	2.6	3.0	2.8	2.6	2.5	2.6
10.....	2.6	4.8	2.5	3.2	2.7	2.7	2.6	2.6	2.7	2.6	2.5	2.9
11.....	5.9	3.8	4.4	3.1	2.7	2.7	2.5	4.3	2.7	2.5	2.5	2.8
12.....	11.4	3.5	4.1	3.1	2.7	3.1	2.5	3.2	3.0	2.5	2.5	2.7
13.....	11.5	3.2	3.2	3.1	2.7	2.9	2.4	2.8	2.8	3.0	2.6	2.6
14.....	5.0	3.1	3.0	5.5	2.6	4.6	2.4	5.5	2.7	3.0	2.6	2.7
15.....	4.1	3.0	2.9	4.9	2.6	9.0	2.6	6.0	2.7	2.8	2.5	5.3
16.....	3.4	2.9	2.8	3.9	2.6	11.2	2.6	10.0	2.7	2.7	2.5	4.2
17.....	3.4	2.9	2.7	3.5	2.6	5.0	4.6	8.4	6.6	2.7	2.5	3.1
18.....	3.0	2.9	2.7	3.4	3.0	3.9	3.2	5.4	14.8	2.6	2.5	2.9
19.....	3.0	2.8	2.6	3.6	3.5	3.6	4.6	3.9	8.6	2.6	2.6	2.8
20.....	2.9	2.8	2.6	4.4	5.7	3.3	6.3	4.3	4.6	2.6	2.6	2.7
21.....	2.8	2.7	3.0	4.3	5.7	3.2	3.5	6.7	3.6	2.6	2.7	2.7
22.....	2.8	2.7	2.9	4.0	7.9	3.2	2.8	5.4	3.3	2.6	2.6	2.6
23.....	2.8	2.7	2.8	3.5	7.7	3.8	2.7	7.3	3.1	2.5	2.6	2.6
24.....	2.9	2.8	2.8	3.3	4.0	3.6	2.6	9.0	3.0	2.5	2.6	3.1
25.....	3.6	2.8	2.8	3.2	3.4	4.8	2.5	5.1	2.9	2.5	2.6	3.0
26.....	3.1	2.7	13.5	3.2	3.5	4.0	2.5	4.3	2.9	2.5	2.6	3.0
27.....	2.9	2.7	14.1	3.2	3.3	3.8	3.2	5.5	2.8	2.5	2.5	3.0
28.....	2.9	2.7	8.4	3.2	3.1	3.7	2.8	8.4	2.9	2.5	2.5	4.0
29.....	2.8		4.2	3.0	3.0	3.6	2.6	6.3	3.0	2.5	2.5	14.2
30.....	2.9		3.6	2.8	2.9	5.9	2.6	6.3	2.9	2.5	2.5	19.9
31.....	3.5		3.6		2.9		2.5	4.9		2.5		12.4
Means.	3.8	3.5	3.8	4.1	3.4	4.0	3.0	4.9	3.8	2.7	2.5	4.2
<b>1902</b>												
1.....	4.7	7.5	23.2	4.3	3.3	2.9	2.2	2.3	2.3	3.9	2.3	4.3
2.....	4.0	23.2	9.5	4.0	3.4	2.8	2.2	2.2	2.2	3.6	2.2	3.6
3.....	3.7	17.1	5.8	3.8	3.3	2.7	2.3	3.1	2.2	2.7	2.2	6.6
4.....	3.5	6.3	4.8	3.8	3.3	2.7	2.8	3.0	2.2	2.6	2.1	6.4
5.....	3.4	4.7	4.4	3.7	3.2	2.6	2.6	2.7	2.2	3.6	2.2	4.5
6.....	3.3	4.1	4.2	3.7	3.7	2.6	2.3	2.5	2.1	3.0	2.5	4.0
7.....	3.2	3.8	3.9	3.7	3.3	2.6	2.2	2.3	2.1	2.6	2.5	3.3
8.....	3.1	3.5	3.8	3.6	3.2	2.8	2.4	2.2	2.1	2.4	2.3	3.0
9.....	3.1	3.4	4.0	3.5	3.2	2.6	2.8	2.1	3.3	2.4	2.3	2.9
10.....	3.0	3.4	3.9	3.4	3.1	2.5	2.4	2.1	4.7	2.3	2.3	2.7
11.....	3.0	3.3	3.8	3.4	3.1	2.5	2.4	2.1	3.6	2.5	2.3	2.7
12.....	2.9	3.3	3.7	3.3	3.1	2.5	2.7	2.6	2.6	3.5	2.3	2.6
13.....	2.9	3.3	4.6	3.3	3.0	2.5	2.6	2.3	2.8	2.9	2.2	2.9
14.....	2.9	3.2	4.3	3.3	3.4	2.5	2.4	5.0	2.8	2.7	2.2	2.8
15.....	2.9	3.3	4.4	3.3	3.1	2.7	4.8	4.8	2.6	2.8	2.2	2.8
16.....	2.9	3.5	5.1	3.8	3.0	3.3	3.4	3.0	2.5	2.5	2.2	2.9
17.....	2.8	3.6	8.5	4.0	3.0	2.8	2.6	3.5	2.3	2.5	2.2	4.3
18.....	2.8	3.5	6.0	4.6	3.0	2.6	2.4	3.0	2.3	2.4	2.9	3.6
19.....	2.9	3.4	4.2	3.6	3.0	2.6	2.3	2.4	2.8	2.3	2.9	3.1
20.....	3.0	3.5	3.9	3.6	3.0	3.0	2.3	2.9	2.6	2.3	2.5	2.9
21.....	3.0	3.6	3.7	3.5	3.1	2.7	2.3	2.9	2.5	2.3	2.4	2.8
22.....	3.1	4.0	3.7	3.4	3.0	2.6	2.3	2.3	2.3	2.3	2.4	3.8
23.....	2.9	3.6	3.6	3.3	3.0	2.5	2.2	2.5	2.2	2.3	2.4	3.4
24.....	2.8	3.5	3.6	3.3	2.9	2.4	2.2	2.4	2.2	2.3	2.3	3.1
25.....	2.9	4.4	3.5	3.3	2.9	2.4	2.3	2.3	5.9	2.2	2.3	3.0
26.....	2.8	4.6	3.5	3.2	2.8	2.4	2.3	2.3	8.2	2.2	4.6	2.8
27.....	2.8	3.9	3.5	3.2	2.8	2.4	2.2	2.2	4.6	2.3	4.0	2.8
28.....	3.0	24.5	3.9	3.1	2.7	2.4	3.1	2.4	3.4	2.5	3.9	2.6
29.....	4.4		15.0	3.1	2.7	2.3	3.3	3.6	3.6	2.3	3.0	2.6
30.....	3.9		12.0	3.2	2.6	2.3	2.3	3.1	3.3	2.3	2.6	3.3
31.....	4.1		6.5		2.6		2.3	2.5		2.3		3.3
Means.	3.2	5.8	5.8	3.5	3.1	2.6	2.5	2.7	3.0	2.6	2.5	3.4

## SAVANNAH RIVER SYSTEM—BROAD RIVER, CARLTON, GA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	3.0	3.1	7.9	5.8	3.2	4.3	3.0	3.1	2.2	2.2	2.3	2.2
2.....	3.1	3.0	5.2	4.4	3.1	4.6	2.9	2.7	2.2	2.2	2.3	2.2
3.....	3.9	3.6	4.0	4.2	3.1	6.0	3.0	3.1	2.2	2.2	2.9	2.2
4.....	3.7	7.0	3.7	4.4	3.7	4.5	3.4	3.5	2.1	2.2	3.1	2.2
5.....	3.4	7.8	3.6	4.0	3.5	4.6	2.9	3.7	2.1	2.2	3.0	2.2
6.....	3.1	5.2	3.7	3.8	3.2	6.1	2.8	3.2	2.1	2.2	3.1	2.3
7.....	3.0	3.8	3.7	3.7	3.1	8.0	3.3	3.6	2.2	2.2	2.5	2.3
8.....	2.8	17.6	3.8	4.1	3.1	6.0	2.9	2.5	2.2	2.3	2.4	2.2
9.....	2.8	11.2	3.6	4.8	3.1	4.8	2.8	2.4	2.2	2.4	2.3	2.2
10.....	2.8	5.6	4.3	4.1	3.0	4.4	2.7	2.4	2.2	2.3	2.3	2.3
11.....	2.9	6.5	5.7	3.8	3.0	3.6	2.7	5.3	2.1	2.2	2.3	2.2
12.....	4.9	10.4	5.8	3.6	2.9	4.8	3.2	3.3	2.1	2.2	2.3	2.2
13.....	4.7	7.5	4.6	3.6	3.0	3.9	5.5	2.7	2.1	2.2	2.3	2.3
14.....	3.5	4.4	3.9	6.8	3.2	3.3	4.9	2.7	2.1	2.2	2.3	2.5
15.....	3.2	4.0	3.7	5.5	3.6	3.2	3.3	4.7	3.2	2.2	2.3	2.3
16.....	3.1	3.8	3.6	4.0	3.3	3.1	2.9	4.0	4.4	2.2	2.3	2.3
17.....	2.9	13.1	3.4	3.7	3.1	3.1	2.8	2.9	4.3	2.3	2.3	2.2
18.....	2.9	12.7	3.4	3.6	3.1	3.0	2.7	7.3	3.2	2.6	2.4	2.2
19.....	2.8	4.9	3.3	3.5	3.0	3.0	2.7	4.0	2.6	2.4	2.3	2.1
20.....	2.8	4.1	3.2	3.5	3.0	2.9	2.6	3.6	2.5	2.3	2.3	2.2
21.....	2.9	3.8	4.1	3.5	3.2	3.1	2.6	2.8	2.5	2.3	2.3	2.5
22.....	2.8	3.7	5.5	3.4	3.0	2.9	2.5	2.7	2.4	2.2	2.3	2.4
23.....	2.7	3.5	13.2	3.4	3.0	2.8	2.5	3.6	2.4	2.2	2.2	2.3
24.....	2.9	3.4	21.0	3.3	2.9	2.8	2.5	2.5	2.4	2.2	2.2	2.2
25.....	3.1	3.3	10.7	3.3	2.9	2.7	2.4	2.5	2.3	2.2	2.2	2.3
26.....	3.0	3.3	5.0	3.4	2.8	2.7	2.4	2.5	2.3	2.2	2.2	2.7
27.....	2.9	3.2	4.4	3.4	2.8	3.1	2.4	2.4	2.3	2.2	2.2	2.5
28.....	3.1	6.0	4.2	3.3	2.9	5.6	2.3	2.4	2.3	2.1	2.2	2.4
29.....	3.7		5.4	3.3	2.8	3.6	2.4	2.4	2.2	2.1	2.2	2.3
30.....	4.3		9.0	3.2	2.9	3.3	2.7	2.3	2.2	2.1	2.2	2.2
31.....	3.4		9.0		4.0		2.8	2.3		2.2		2.2
Means.	3.2	6.0	5.6	3.9	3.1	4.0	2.9	3.2	2.5	2.2	2.4	2.3
<b>1904</b>												
1.....	2.2	2.6	2.6	2.5	2.2	2.4	2.1	1.6	1.9	1.5	1.6	1.9
2.....	2.2	2.5	2.6	2.5	2.2	2.5	2.0	2.6	1.9	1.5	1.6	2.0
3.....	2.3	2.4	2.8	2.5	2.1	2.1	1.9	2.4	1.8	1.5	1.7	2.5
4.....	2.3	2.4	2.8	2.4	2.1	2.0	1.8	2.0	2.4	1.5	1.9	2.1
5.....	2.2	2.3	2.6	2.4	2.1	1.9	1.7	1.9	3.2	1.5	2.1	2.4
6.....	2.2	2.3	2.6	2.4	2.1	1.9	1.7	2.8	2.8	1.5	2.0	4.2
7.....	2.2	2.5	3.7	2.6	2.2	2.1	1.6	2.5	2.7	1.5	1.8	3.2
8.....	2.2	3.4	5.7	2.6	2.2	2.2	1.6	6.5	2.1	1.5	1.7	2.6
9.....	2.2	3.1	4.8	2.7	3.5	1.9	4.2	10.4	2.0	1.5	1.7	2.4
10.....	2.2	3.0	3.4	2.5	3.0	1.9	2.7	6.3	1.9	1.5	1.6	2.2
11.....	2.3	3.3	3.0	2.5	2.4	1.8	2.0	4.2	1.8	1.5	1.6	2.3
12.....	2.3	3.0	2.8	2.4	2.2	1.8	2.0	3.3	1.8	1.5	1.6	2.1
13.....	2.4	2.7	2.7	2.4	2.2	1.8	2.0	3.0	1.8	1.5	2.0	2.0
14.....	2.4	2.6	2.9	2.3	2.1	1.8	1.8	2.7	1.7	1.5	2.2	2.0
15.....	2.3	2.6	3.0	2.3	2.1	1.7	1.7	2.5	1.7	1.5	2.0	2.0
16.....	2.2	2.5	2.8	2.3	2.1	1.7	1.6	2.6	1.7	1.5	1.9	2.0
17.....	2.3	2.5	2.7	2.4	2.0	1.7	2.1	2.4	1.6	1.5	1.9	2.0
18.....	2.5	2.4	2.6	2.4	2.0	1.6	1.8	2.2	1.6	1.5	1.8	2.0
19.....	2.4	2.4	2.6	2.3	2.0	1.8	1.6	2.1	1.6	1.5	1.8	2.0
20.....	2.2	3.6	2.5	2.3	2.0	1.7	1.5	4.2	1.6	1.5	1.7	1.9
21.....	2.2	3.3	2.5	2.4	1.9	2.5	1.4	2.9	1.6	1.5	1.7	1.9
22.....	2.2	4.8	4.0	2.3	1.9	2.1	1.6	2.1	2.1	1.5	1.7	1.9
23.....	3.8	4.6	3.4	2.3	1.9	2.0	1.9	2.0	1.6	1.5	1.9	1.9
24.....	3.2	3.7	4.3	2.2	1.9	1.7	1.8	1.9	1.6	1.5	2.3	1.9
25.....	2.7	3.4	3.5	2.2	1.8	1.7	1.6	1.9	1.6	1.5	2.0	2.0
26.....	2.5	2.9	3.3	2.3	1.8	1.6	2.6	1.9	1.6	1.6	1.9	2.1
27.....	2.4	2.8	3.0	2.4	1.8	1.6	1.9	3.1	1.6	1.7	1.8	2.1
28.....	2.4	2.7	2.9	2.3	1.8	1.6	1.7	3.3	1.6	1.7	1.8	3.3
29.....	2.5	2.6	2.7	2.2	1.8	1.9	3.0	2.9	1.6	1.6	1.7	3.0
30.....	2.6		2.6	2.2	3.0	2.3	1.8	2.2	1.5	1.6	1.7	2.5
31.....	2.5		2.6		3.4		1.6	2.0		1.6		2.3
Means.	2.4	2.9	3.1	2.4	2.2	1.9	2.0	3.0	1.9	1.5	1.8	2.3

## DESCRIPTION OF RIVER GAGES, ETC.

## SAVANNAH RIVER SYSTEM—SAVANNAH RIVER, CALHOUN FALLS, S. C.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	3.3	2.9	5.3	3.6	4.0	2.8	3.6	3.2	3.2	2.1	2.9	3.0
2.....	3.2	2.8	6.5	3.5	3.9	2.7	3.2	3.0	3.7	2.0	3.0	2.9
3.....	3.2	2.8	4.6	3.5	4.2	3.1	3.0	3.0	3.3	2.0	3.9	2.8
4.....	3.1	2.7	4.2	3.7	4.0	2.9	3.0	2.9	3.0	2.1	4.3	3.9
5.....	3.0	2.8	3.9	3.6	3.9	3.5	2.9	2.9	3.0	2.1	4.0	3.8
6.....	3.0	2.8	3.8	3.4	3.7	3.4	2.9	2.8	2.9	3.0	3.8	3.8
7.....	2.9	2.9	3.6	3.3	3.6	3.9	2.8	2.8	2.8	2.7	3.7	3.7
8.....	2.9	2.9	4.0	3.4	3.4	11.0	2.7	2.7	2.6	2.6	3.4	3.6
9.....	2.9	3.0	4.9	3.4	3.3	5.0	2.7	2.6	2.5	2.5	3.3	3.4
10.....	3.0	3.2	4.3	3.3	3.1	3.5	2.6	2.4	2.3	2.4	3.2	3.4
11.....	3.2	5.2	3.9	3.6	3.1	3.0	2.5	2.3	2.2	2.4	3.2	3.3
12.....	4.0	9.3	3.8	4.0	3.0	3.0	2.4	2.2	2.1	2.6	3.0	3.3
13.....	3.9	15.5	3.6	3.8	3.0	3.1	2.4	2.7	2.0	3.9	2.9	3.4
14.....	3.7	19.4	3.4	3.6	3.0	3.0	2.5	2.6	2.0	3.0	2.7	3.7
15.....	3.6	8.0	3.3	3.6	2.9	3.0	2.4	2.5	4.7	2.9	2.7	3.6
16.....	3.5	5.5	4.6	3.5	2.9	3.3	2.3	2.5	6.9	2.8	2.6	3.4
17.....	3.3	4.9	4.5	3.5	2.9	5.6	2.2	2.6	5.0	2.6	2.6	3.4
18.....	3.3	4.7	4.0	3.9	2.8	6.1	2.2	2.6	3.2	2.5	2.6	3.3
19.....	3.4	4.4	3.8	5.0	3.0	4.9	2.1	2.4	3.0	2.5	2.6	3.3
20.....	3.9	4.3	4.2	5.1	3.0	4.0	2.1	2.3	2.9	2.4	3.0	3.6
21.....	3.8	4.2	4.0	8.0	2.9	3.7	2.1	2.2	2.9	2.4	2.9	3.7
22.....	3.6	5.4	3.9	10.4	2.9	3.6	2.0	2.0	2.7	2.4	2.8	3.5
23.....	3.5	4.7	3.8	5.5	3.0	4.0	2.2	2.0	2.7	2.5	2.8	3.4
24.....	3.4	4.4	4.0	6.9	4.9	12.7	2.3	1.9	2.6	5.0	2.6	3.4
25.....	3.2	4.2	5.6	6.0	4.2	12.0	2.2	2.5	2.4	4.0	2.6	3.3
26.....	3.2	4.0	5.7	4.9	3.2	7.8	2.2	2.9	2.4	3.9	3.6	3.3
27.....	3.1	3.9	5.0	4.2	3.0	5.0	2.3	2.7	2.2	3.7	3.4	3.3
28.....	3.0	3.9	4.8	4.0	3.0	4.5	3.4	2.4	2.0	3.5	3.2	3.2
29.....	3.0	.....	4.2	4.2	2.9	3.9	3.2	2.3	2.0	3.3	3.1	3.2
30.....	3.0	.....	3.9	4.0	2.9	3.8	3.4	2.2	2.1	3.1	3.0	3.3
31.....	2.9	.....	3.7	.....	2.8	.....	3.1	2.1	.....	2.9	.....	3.3
Means.	3.3	5.2	4.3	4.4	3.3	4.7	2.6	2.5	2.9	2.8	3.1	3.4
<b>1901</b>												
1.....	3.4	3.3	2.8	4.0	3.8	4.9	4.0	2.9	4.8	3.4	2.4	2.1
2.....	3.6	3.2	4.2	4.2	3.7	4.2	3.9	2.9	4.7	3.3	2.3	2.1
3.....	3.6	3.3	2.7	11.5	3.7	4.0	3.8	2.8	4.5	3.3	2.3	2.2
4.....	3.5	6.6	2.7	10.0	3.6	3.9	3.8	2.8	4.3	3.2	2.2	2.2
5.....	3.5	6.0	2.7	7.3	3.6	3.8	3.7	2.7	4.0	3.2	2.2	2.3
6.....	3.4	4.4	2.7	5.0	3.6	3.8	3.6	3.0	3.9	3.2	2.2	2.3
7.....	3.4	3.9	2.6	4.4	3.5	3.7	3.4	8.5	3.7	3.1	2.1	2.3
8.....	3.4	3.6	2.6	4.2	3.5	3.7	3.4	4.5	3.6	3.1	2.1	2.2
9.....	3.3	3.7	2.6	4.0	3.5	3.6	3.3	3.9	3.4	3.0	2.0	2.2
10.....	3.4	3.6	2.7	3.9	3.4	3.5	3.3	3.3	3.2	3.0	2.0	2.5
11.....	3.6	3.5	3.2	3.8	3.4	3.5	3.2	3.2	3.1	2.9	2.0	2.5
12.....	5.9	3.5	4.0	3.8	3.3	3.4	3.1	4.0	3.0	2.9	2.0	2.4
13.....	6.0	3.4	3.6	3.8	3.3	3.5	3.2	4.9	3.0	3.2	1.9	2.4
14.....	4.8	3.2	3.3	4.2	3.3	6.0	3.2	5.2	2.9	3.0	1.9	2.6
15.....	4.4	3.1	3.2	4.6	3.2	11.8	3.1	7.5	2.9	3.0	1.9	5.0
16.....	4.0	3.1	3.0	4.2	3.1	13.0	3.1	11.0	2.9	2.9	1.9	5.3
17.....	4.0	3.0	3.0	4.0	3.1	7.5	3.0	8.0	4.0	2.9	1.9	5.0
18.....	3.9	3.0	3.0	3.9	3.0	5.0	3.0	5.9	17.2	2.8	2.0	4.5
19.....	3.8	2.9	3.0	4.9	3.1	4.1	3.2	5.0	11.5	2.8	2.0	4.2
20.....	3.8	2.9	2.9	8.5	4.3	4.0	3.0	4.5	6.0	2.7	2.3	4.0
21.....	3.7	2.9	3.1	10.2	6.0	3.9	2.9	4.0	4.0	2.7	2.4	3.9
22.....	3.6	2.8	3.0	6.0	10.2	3.8	2.9	4.8	3.8	2.7	2.4	3.8
23.....	3.6	2.8	3.0	4.9	8.2	4.2	2.8	9.9	3.7	2.6	2.3	3.8
24.....	3.7	2.9	3.2	4.2	5.0	4.0	2.7	8.2	3.7	2.6	2.2	4.2
25.....	3.4	3.0	3.1	4.0	4.8	4.0	2.7	4.4	3.6	2.6	2.2	4.0
26.....	3.3	2.9	11.0	3.9	4.5	3.9	2.9	4.0	3.6	2.5	2.2	4.5
27.....	3.2	2.9	16.5	3.8	4.5	3.9	3.0	5.5	3.5	2.5	2.1	4.7
28.....	3.1	2.8	10.0	3.9	4.3	3.8	2.9	13.3	3.5	2.5	2.1	6.2
29.....	3.1	.....	7.5	3.9	4.1	3.9	2.9	10.0	3.4	2.5	2.1	12.0
30.....	3.3	.....	5.0	3.8	4.0	4.0	3.2	7.7	3.4	2.4	2.1	17.9
31.....	3.4	.....	4.9	.....	4.0	.....	3.0	5.0	.....	2.4	.....	10.0
Means.	3.7	3.4	4.2	5.1	4.1	4.7	3.2	5.6	4.4	2.9	2.1	4.4



## SAVANNAH RIVER SYSTEM—SAVANNAH RIVER, CALHOUN FALLS, S. C.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1902												
1.....	7.0	8.0	16.0	4.0	2.1	1.8	2.0	3.0	2.5	3.5	3.1	3.1
2.....	5.0	16.3	9.0	3.9	2.7	1.7	2.0	3.5	2.4	3.2	3.0	3.0
3.....	3.9	12.0	6.0	3.8	2.4	1.7	1.9	3.7	2.4	3.0	2.8	6.9
4.....	3.8	7.5	4.6	3.8	2.2	1.7	1.9	3.0	2.5	2.9	2.7	6.7
5.....	3.7	5.0	4.2	3.7	2.2	1.7	1.9	2.8	2.5	3.2	2.7	4.5
6.....	3.7	4.5	4.1	3.7	2.1	1.6	1.9	2.6	2.5	3.4	2.6	4.2
7.....	3.6	4.2	4.0	3.6	2.3	1.6	2.0	2.3	2.4	3.2	2.7	4.0
8.....	3.6	4.0	3.9	3.6	2.3	1.6	2.0	2.2	2.3	3.0	2.9	3.8
9.....	3.5	3.9	3.9	3.5	2.2	1.5	2.4	2.1	3.2	2.9	2.6	3.8
10.....	3.5	3.9	3.8	3.5	3.0	1.5	2.4	2.0	6.0	2.8	2.4	3.7
11.....	3.4	3.8	3.8	3.4	2.8	1.4	2.7	2.0	4.9	2.8	2.2	3.5
12.....	3.4	3.8	3.7	3.4	2.7	1.4	3.0	2.0	4.0	2.7	2.1	3.4
13.....	3.3	3.7	4.0	3.3	2.5	1.4	3.0	2.3	3.9	2.6	2.0	3.9
14.....	3.3	3.7	3.9	3.2	2.4	1.4	3.4	3.0	3.8	3.0	1.9	3.7
15.....	3.2	3.7	3.9	3.1	2.3	1.5	3.7	2.5	3.5	2.9	1.9	3.6
16.....	3.2	3.8	4.9	3.0	2.2	5.0	3.0	2.4	3.3	2.8	1.8	3.5
17.....	3.1	3.8	8.9	3.0	2.2	4.0	3.0	2.7	3.1	2.7	1.8	3.6
18.....	3.1	3.8	6.0	3.2	2.0	3.3	2.8	2.6	2.9	2.5	1.8	4.9
19.....	3.2	3.9	4.5	3.1	2.0	3.0	2.7	2.5	3.7	2.3	1.7	4.0
20.....	3.2	3.9	4.2	3.0	2.0	2.8	2.6	2.3	3.2	2.3	1.7	3.8
21.....	3.2	4.0	4.0	3.0	2.1	2.8	2.6	2.2	3.0	2.3	1.7	3.7
22.....	3.3	3.9	3.9	2.9	2.2	2.5	2.6	2.1	3.0	2.2	1.6	3.9
23.....	3.3	3.8	3.8	2.8	2.0	2.4	2.6	2.0	3.0	2.2	1.7	3.8
24.....	3.2	3.8	3.8	2.7	2.0	2.4	2.5	2.4	2.9	2.1	1.7	3.6
25.....	3.1	3.9	3.8	2.6	2.0	2.3	2.4	2.1	4.0	2.1	1.9	3.5
26.....	3.0	3.8	3.7	2.5	2.0	2.2	2.4	2.0	4.9	2.0	3.9	3.5
27.....	3.0	3.8	3.7	2.4	1.9	2.2	2.3	2.2	4.0	4.0	3.0	3.4
28.....	3.2	16.4	4.2	2.3	1.9	2.1	3.0	3.0	3.9	3.9	2.9	3.4
29.....	3.5	.....	9.3	2.2	1.9	2.0	3.0	3.1	3.5	3.7	2.7	3.5
30.....	4.0	.....	7.0	2.2	1.8	2.0	3.2	2.8	3.2	3.4	2.9	3.9
31.....	4.1	.....	4.5	.....	1.8	.....	3.4	2.6	.....	3.3	.....	3.7
Means.	3.6	5.4	5.1	3.2	2.2	2.2	2.6	2.5	3.3	2.9	2.3	3.9
1903												
1.....	3.6	3.8	10.0	5.2	3.8	3.6	3.5	3.1	2.9	2.6	2.3	2.0
2.....	3.6	3.4	6.7	4.5	3.7	5.5	3.5	3.0	2.8	2.5	2.2	2.1
3.....	4.0	3.5	4.5	4.0	3.7	4.4	3.6	3.0	2.8	2.5	2.2	2.1
4.....	4.0	5.9	4.0	3.9	4.0	4.6	3.9	3.1	2.8	2.4	2.3	2.2
5.....	3.8	7.7	3.8	4.0	3.9	4.8	3.7	3.2	2.7	2.4	2.6	2.2
6.....	3.7	6.0	3.7	3.9	3.7	7.0	3.8	3.4	2.7	2.4	2.5	2.3
7.....	3.7	5.5	3.7	3.9	3.6	15.3	4.8	3.2	2.6	2.5	2.3	2.2
8.....	3.6	12.3	3.6	4.0	3.5	8.0	4.0	3.1	2.6	2.5	2.2	2.2
9.....	3.5	9.0	3.9	5.9	3.5	4.9	4.1	3.0	2.5	2.7	2.2	2.2
10.....	3.5	4.9	3.8	4.5	3.5	4.0	3.9	3.0	3.0	2.6	2.2	2.3
11.....	3.7	6.9	3.6	4.1	3.4	3.5	4.0	3.1	2.9	2.6	2.1	2.2
12.....	4.0	10.8	5.9	4.0	3.4	4.0	4.1	3.2	2.8	2.5	2.1	2.2
13.....	3.9	6.0	5.5	5.1	3.3	3.8	4.0	3.3	2.6	2.5	2.2	2.3
14.....	3.7	4.2	4.2	12.9	3.3	3.7	4.2	3.4	2.7	2.4	2.2	2.2
15.....	3.5	4.0	4.0	9.5	3.4	3.6	4.0	3.2	3.4	2.4	2.1	2.2
16.....	3.4	4.9	4.0	5.0	3.5	3.5	3.8	3.1	4.2	2.5	2.1	2.1
17.....	3.3	9.1	3.9	5.4	3.4	3.5	3.7	3.5	4.0	2.6	2.1	2.1
18.....	3.2	8.0	3.8	5.0	3.3	3.4	3.5	5.5	3.5	3.0	2.2	2.2
19.....	3.2	6.2	3.8	5.0	3.4	3.2	3.3	6.9	3.2	2.8	2.2	2.2
20.....	3.2	5.0	3.9	4.9	3.4	3.0	3.2	4.5	3.0	2.6	2.7	2.3
21.....	3.2	4.5	4.5	4.9	3.3	3.2	3.1	4.0	3.0	2.5	2.4	2.4
22.....	3.3	4.1	5.9	4.8	3.3	3.1	3.0	3.7	2.9	2.4	2.3	2.3
23.....	3.2	3.9	11.1	4.7	3.2	3.0	3.0	3.3	2.9	2.4	2.2	2.2
24.....	3.1	3.7	14.5	4.5	3.2	3.1	3.1	3.1	2.8	2.3	2.2	2.2
25.....	2.9	3.6	8.7	4.3	3.1	3.0	2.9	3.1	2.8	2.2	2.1	2.2
26.....	2.8	3.3	6.9	4.0	3.0	3.0	2.9	3.0	2.8	2.2	2.1	2.1
27.....	2.7	3.4	4.7	3.9	3.0	3.2	2.9	3.0	2.7	2.1	2.0	2.2
28.....	2.9	6.6	4.4	3.9	3.1	3.5	2.8	2.9	2.7	2.2	2.0	2.2
29.....	3.0	.....	4.9	3.8	3.1	4.0	2.8	2.9	2.7	2.1	2.0	2.2
30.....	3.9	.....	9.1	3.8	3.4	3.6	2.9	3.0	2.6	2.1	2.0	2.1
31.....	2.9	.....	7.5	.....	3.5	.....	3.0	2.9	.....	2.3	.....	2.1
Means.	3.4	5.7	5.6	4.9	3.4	4.3	3.5	3.4	2.9	2.4	2.2	2.2

## DESCRIPTION OF RIVER GAGES, ETC.

## SAVANNAH RIVER SYSTEM—SAVANNAH RIVER, CALHOUN FALLS, S. C.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	2.1	3.2	2.8	2.6	2.2	2.1	2.0	2.0	3.0	1.8	1.2	2.2
2.....	2.2	2.5	2.7	2.7	2.2	2.2	2.0	2.2	2.9	1.7	1.2	2.3
3.....	2.4	2.4	2.8	2.6	2.2	2.0	2.2	2.4	2.7	1.7	1.3	2.4
4.....	2.4	2.3	2.8	2.5	3.0	2.0	2.0	2.2	3.0	1.6	1.5	2.4
5.....	2.2	2.3	2.7	2.5	2.6	2.0	2.0	2.0	3.2	1.6	1.6	2.9
6.....	2.2	2.2	2.6	2.4	2.4	1.9	1.9	2.2	4.0	1.5	1.5	3.8
7.....	2.2	2.2	4.7	2.5	2.3	1.9	1.8	2.2	3.3	1.4	1.3	3.7
8.....	2.1	2.5	4.5	2.5	2.2	1.9	1.7	6.7	3.1	1.3	1.3	3.4
9.....	2.1	2.4	4.0	3.0	3.4	1.9	2.0	9.9	3.0	1.2	1.3	3.2
10.....	2.2	3.0	3.4	2.8	3.0	1.8	1.9	8.0	2.9	1.2	1.2	3.1
11.....	2.2	2.9	3.0	2.7	2.9	1.8	1.9	5.5	2.9	1.1	1.2	3.0
12.....	2.1	2.5	2.9	2.7	2.7	1.7	1.8	4.0	2.8	1.1	1.2	3.0
13.....	2.1	2.3	2.8	2.6	2.5	1.7	1.8	3.8	2.8	1.0	1.3	2.9
14.....	2.1	2.4	3.0	2.6	2.4	1.8	1.7	3.5	2.7	1.0	1.4	2.9
15.....	2.2	2.6	3.0	2.5	2.4	2.0	1.7	3.3	2.6	1.0	1.4	2.8
16.....	2.2	2.4	2.9	2.5	2.2	2.0	1.6	4.0	2.6	1.0	1.3	2.9
17.....	2.2	2.3	2.9	2.6	2.1	2.0	2.0	3.8	2.6	1.0	1.3	2.9
18.....	2.2	2.2	2.8	2.6	2.1	1.9	1.9	3.5	2.5	1.0	1.2	2.8
19.....	2.3	2.4	2.8	2.5	2.0	1.9	1.9	3.6	2.5	1.1	1.2	2.8
20.....	2.3	2.4	2.8	2.5	2.0	2.2	1.9	3.9	2.5	1.1	1.2	2.7
21.....	2.4	3.0	2.7	2.4	1.9	2.1	1.8	3.5	2.4	1.1	1.1	2.7
22.....	3.0	4.9	3.0	2.4	1.9	2.0	1.8	3.3	2.4	1.1	1.2	2.7
23.....	6.9	4.8	3.4	2.3	1.9	2.0	2.0	3.1	2.3	1.1	1.2	2.6
24.....	4.4	4.0	3.2	2.3	1.8	1.9	2.0	3.0	2.3	1.1	1.2	2.6
25.....	4.0	3.8	3.1	2.3	1.8	1.8	2.1	3.0	2.2	1.2	1.3	2.6
26.....	3.8	3.4	3.2	2.4	1.8	1.7	2.2	2.9	2.2	1.3	1.3	2.7
27.....	3.7	3.2	3.2	2.5	1.8	1.7	2.1	3.2	2.1	1.3	1.2	2.8
28.....	3.6	3.0	3.0	2.5	1.8	1.9	2.0	5.3	2.0	1.2	1.1	3.9
29.....	3.5	2.9	2.9	2.4	1.7	2.1	2.1	4.9	2.0	1.2	1.2	4.0
30.....	3.4		2.8	2.3	2.0	2.0	2.2	3.6	1.9	1.2	1.3	3.0
31.....	3.4		2.6		2.3		2.0	3.4		1.2		2.7
Means.	2.8	2.8	3.1	2.5	2.2	1.9	2.0	3.8	2.6	1.2	1.3	2.9

## SAVANNAH RIVER SYSTEM—SAVANNAH RIVER, AUGUSTA, GA.

1900												
1.....	7.3	7.0	14.0	10.2	11.7	7.5	12.2	12.0	6.3	5.9	7.5	8.0
2.....	6.9	6.8	22.9	9.8	11.3	7.5	13.6	9.6	8.5	6.2	7.4	7.6
3.....	6.7	6.5	20.2	9.5	10.8	7.4	12.3	8.5	7.9	6.0	7.0	7.7
4.....	6.6	6.3	15.0	9.3	13.0	7.4	12.0	7.8	7.0	5.9	12.8	8.0
5.....	6.5	8.0	12.3	9.5	11.0	8.5	11.6	7.8	7.0	6.0	12.9	15.0
6.....	6.8	8.9	11.1	9.7	9.8	10.0	9.9	7.2	6.6	6.0	9.8	15.2
7.....	6.8	9.2	10.5	9.3	9.3	8.6	9.2	7.0	6.4	7.1	8.3	12.0
8.....	6.5	8.3	10.2	9.0	9.0	17.6	8.8	7.2	6.2	7.3	7.8	9.6
9.....	6.7	8.0	15.7	8.9	8.8	21.5	8.5	7.0	6.4	7.2	7.5	8.5
10.....	6.6	8.4	18.2	8.8	8.8	16.0	8.3	6.9	5.6	7.6	7.3	8.4
11.....	6.8	19.5	15.6	8.9	8.6	11.8	8.5	7.0	5.9	7.2	6.9	8.2
12.....	9.0	26.6	12.4	10.7	8.5	9.9	7.9	6.8	5.7	6.5	7.0	8.0
13.....	14.6	28.5	11.3	11.1	8.4	9.2	8.5	6.0	5.4	6.5	6.9	7.9
14.....	13.8	31.9	10.5	11.0	8.2	8.8	8.5	6.7	5.3	7.4	6.9	8.0
15.....	9.5	a 32.0	10.0	9.8	8.2	10.0	9.2	7.1	7.2	7.1	6.8	11.6
16.....	8.8	24.4	11.9	9.0	8.0	9.4	9.5	6.6	12.5	6.9	6.8	11.9
17.....	8.3	17.9	17.8	8.8	7.9	11.5	9.0	6.3	15.6	6.8	6.8	8.8
18.....	7.9	13.3	15.2	9.0	7.8	19.8	8.3	7.4	11.7	6.3	6.7	8.0
19.....	7.9	11.8	12.3	22.2	7.8	19.5	8.0	6.8	8.8	6.1	6.5	7.7
20.....	8.2	10.7	12.2	24.3	10.8	14.7	8.0	6.4	7.6	6.0	7.0	7.9
21.....	10.0	10.3	15.2	24.0	10.9	11.3	7.8	6.3	6.9	5.7	7.6	11.0
22.....	10.8	11.4	14.4	b 26.3	9.3	9.5	7.5	6.2	7.0	5.8	7.2	12.8
23.....	9.6	15.5	12.3	25.0	7.8	9.8	7.3	6.2	6.8	6.2	7.1	11.9
24.....	8.5	13.4	11.4	20.0	7.7	17.0	7.5	7.1	6.8	6.8	7.2	9.4
25.....	8.2	12.8	12.7	19.9	13.4	c 28.2	8.8	6.4	6.8	17.8	7.2	8.2
26.....	8.0	12.7	19.0	18.2	11.8	28.2	8.4	7.8	6.5	13.3	7.8	7.9
27.....	8.0	11.5	19.2	14.6	9.7	24.5	7.9	7.0	6.5	11.0	14.2	8.8
28.....	7.8	10.3	16.0	12.4	8.5	20.0	10.6	7.0	6.3	9.6	12.8	8.5
29.....	7.2		13.3	12.5	8.2	17.0	11.0	6.9	6.2	8.5	11.3	8.2
30.....	7.2		11.7	10.9	7.8	14.3	12.2	6.2	6.2	8.0	8.6	8.0
31.....	7.1		10.8		7.6		13.7	6.5		7.7		13.5
Means.	8.2	14.0	14.0	13.5	7.4	13.9	9.5	7.2	7.3	7.5	8.3	9.6
	a 32.7 at 8 p. m.				b 28.0 during day.			c 29.4 during day.				

## SAVANNAH RIVER SYSTEM—SAVANNAH RIVER, AUGUSTA, GA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	14.3	10.5	8.4	14.5	10.0	13.4	11.2	8.2	18.8	10.8	8.3	8.3
2.....	15.2	9.8	8.2	12.6	9.8	14.0	12.6	7.9	15.0	10.3	8.3	8.3
3.....	16.9	9.4	8.1	29.3	9.8	11.8	10.0	7.4	15.9	11.8	8.2	8.2
4.....	16.0	22.1	8.0	<sup>a</sup> 31.7	9.6	10.0	9.5	7.0	13.2	12.9	8.5	8.2
5.....	13.1	27.3	8.2	26.2	10.0	9.8	8.6	7.2	11.6	10.3	8.3	9.8
6.....	11.4	22.5	7.9	19.6	9.0	9.7	8.5	7.1	10.8	9.4	8.4	9.3
7.....	9.5	16.8	7.9	15.0	9.2	13.0	8.2	9.5	10.3	9.2	8.4	8.8
8.....	9.1	13.6	7.9	13.0	9.4	16.4	8.3	19.8	10.0	9.0	8.4	8.5
9.....	8.6	12.5	7.7	11.8	9.0	13.3	9.0	14.7	9.8	9.2	8.4	8.5
10.....	8.4	15.4	7.8	11.0	8.8	9.9	8.8	10.5	9.5	8.7	8.2	8.5
11.....	8.5	16.1	8.4	10.7	8.7	9.0	8.8	9.0	9.5	8.5	8.3	8.3
12.....	13.2	13.2	15.0	10.2	8.6	8.8	8.2	11.5	9.4	8.5	8.5	9.0
13.....	23.5	11.9	12.8	10.4	8.5	9.2	7.9	10.9	9.8	9.4	8.7	8.9
14.....	21.0	10.9	10.2	15.7	8.6	17.3	7.8	10.8	9.4	12.1	8.5	8.8
15.....	16.0	10.2	9.0	19.8	8.5	26.5	7.9	16.5	9.2	11.0	8.5	8.5
16.....	12.3	9.9	8.6	15.9	8.3	27.0	9.5	19.7	9.0	9.0	8.5	22.2
17.....	11.4	9.7	8.4	12.9	8.2	23.8	8.3	21.7	9.0	8.8	8.3	19.6
18.....	13.5	9.2	8.0	11.5	8.2	19.0	9.2	22.2	23.4	8.8	8.5	13.9
19.....	12.3	9.1	8.0	11.0	8.4	15.8	9.3	20.5	31.6	8.8	8.3	11.0
20.....	11.4	8.9	7.8	17.0	12.2	12.7	12.8	17.9	28.3	8.3	8.3	10.2
21.....	9.5	8.8	7.8	23.8	19.8	11.0	12.9	16.2	19.0	8.0	8.4	9.3
22.....	9.3	8.6	8.1	20.0	23.6	11.0	10.7	17.0	16.2	8.0	8.8	8.7
23.....	9.0	8.6	9.8	15.6	27.7	11.0	9.0	18.2	11.5	8.2	8.4	9.2
24.....	9.0	9.2	8.9	13.6	23.3	12.3	8.2	23.8	10.8	8.2	9.0	9.3
25.....	9.7	8.5	8.7	12.5	17.5	10.8	7.9	22.9	10.0	8.6	8.8	9.4
26.....	10.6	8.5	10.0	11.8	13.0	12.2	7.5	18.1	9.8	8.5	8.8	9.3
27.....	10.4	8.8	28.2	11.2	14.5	11.0	8.7	16.2	9.5	8.5	8.5	9.3
28.....	9.0	8.6	29.6	10.9	12.0	10.3	9.4	19.0	9.3	8.5	8.4	10.5
29.....	9.2	.....	22.5	10.5	11.0	10.2	9.4	28.4	9.3	8.4	8.3	14.1
30.....	9.0	.....	15.7	10.3	10.6	11.0	8.8	27.8	10.4	8.2	8.2	28.6
31.....	9.4	.....	14.2	.....	9.9	.....	8.3	22.9	.....	8.5	.....	31.0
Means.	11.9	12.1	11.0	15.3	11.8	13.4	9.8	15.8	13.0	9.2	8.4	11.5
<b>1902</b>												
1.....	25.9	14.2	33.0	20.6	9.8	8.0	7.5	7.6	7.5	8.7	7.5	9.8
2.....	18.0	28.0	34.2	15.2	10.0	8.4	7.2	7.8	7.5	9.6	7.3	13.6
3.....	14.0	32.3	30.2	13.3	10.8	8.6	7.0	8.7	6.9	9.5	7.0	15.0
4.....	13.1	30.6	23.3	12.9	10.5	8.5	7.2	8.5	6.7	8.4	7.2	21.3
5.....	11.8	23.0	18.5	12.6	10.2	8.3	7.0	7.6	7.7	8.7	6.9	18.6
6.....	11.0	17.0	15.6	12.2	9.6	8.1	6.9	7.7	7.8	10.5	7.2	14.9
7.....	10.6	13.6	14.3	12.0	9.8	8.0	6.9	7.6	7.6	10.9	7.1	12.2
8.....	10.5	12.4	13.3	12.5	9.3	8.5	7.0	7.5	6.9	8.8	9.5	10.7
9.....	10.5	12.0	12.5	14.0	9.7	8.5	7.3	7.3	6.8	8.4	8.7	9.8
10.....	10.3	11.0	13.0	12.6	9.4	8.8	7.5	7.2	10.2	8.0	8.0	9.2
11.....	10.0	10.8	12.8	11.8	11.3	8.0	8.0	7.3	14.0	8.0	7.7	9.0
12.....	10.0	10.3	12.3	11.2	9.6	7.9	8.0	7.4	10.6	7.9	7.3	8.8
13.....	9.8	10.2	11.9	11.3	9.3	8.0	8.8	8.5	8.5	8.2	7.4	9.8
14.....	9.5	10.2	13.8	10.8	9.1	7.8	9.0	7.8	7.6	9.3	7.3	11.0
15.....	9.4	10.2	13.3	10.4	9.5	7.7	8.6	9.4	8.3	9.0	7.2	10.0
16.....	9.4	10.6	14.6	10.8	9.7	9.5	9.2	9.8	8.2	9.5	7.2	9.2
17.....	9.2	11.2	27.2	10.7	9.2	15.9	9.5	9.5	7.8	8.6	7.1	9.0
18.....	9.2	11.3	27.5	11.8	9.2	12.7	8.8	9.0	7.2	7.8	7.6	13.8
19.....	9.3	11.0	20.8	13.9	9.2	11.8	8.0	8.8	7.3	7.6	8.4	12.3
20.....	9.2	10.7	17.0	12.4	9.3	9.6	7.4	8.0	7.5	7.2	9.2	10.6
21.....	9.3	11.2	14.0	12.3	9.2	9.2	7.0	8.0	7.5	7.5	8.0	9.5
22.....	10.0	14.5	13.3	11.5	9.3	9.1	6.9	7.7	8.5	7.9	8.0	9.8
23.....	10.5	14.0	13.0	10.6	9.2	8.9	6.9	7.6	8.2	6.9	7.8	14.6
24.....	9.8	12.8	12.5	10.5	9.1	8.7	6.9	7.5	7.8	7.1	7.8	12.8
25.....	9.5	14.2	12.0	10.5	9.0	8.4	7.1	7.4	7.5	7.0	7.6	10.9
26.....	9.4	18.3	12.0	10.2	9.0	8.3	7.8	7.4	11.8	7.1	9.0	9.8
27.....	9.3	16.5	11.8	10.1	8.9	8.0	7.9	7.5	13.9	7.1	12.0	9.5
28.....	9.2	17.0	11.8	10.1	8.5	7.8	7.0	7.4	12.3	8.3	11.4	9.0
29.....	9.2	.....	12.2	9.9	8.3	7.5	6.9	8.2	11.0	9.1	9.3	8.8
30.....	11.5	.....	27.8	9.8	8.2	7.5	7.3	8.3	10.2	8.3	8.6	9.0
31.....	11.4	.....	26.5	.....	8.0	.....	7.8	7.6	.....	7.8	.....	9.4
Means.	11.0	15.0	17.6	12.0	9.4	8.9	7.6	8.0	8.7	8.3	8.1	11.3

<sup>a</sup> 31.8 in early morning.

## SAVANNAH RIVER SYSTEM—SAVANNAH RIVER, AUGUSTA, GA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	10.0	10.6	26.2	24.9	10.5	10.2	10.0	9.3	7.3	6.5	6.5	6.9
2.....	9.4	9.8	26.0	20.0	10.6	13.0	9.4	8.4	7.2	6.6	6.9	7.0
3.....	9.8	9.6	19.6	16.6	10.5	20.6	9.0	9.4	7.2	6.8	8.0	7.0
4.....	10.3	10.0	15.5	15.3	10.4	16.5	9.0	14.5	7.4	6.7	8.9	6.9
5.....	14.2	17.0	13.9	14.8	12.0	13.0	9.4	15.1	7.3	6.8	9.3	6.8
6.....	12.8	19.0	13.6	14.2	11.8	18.1	10.2	11.0	7.0	6.7	9.3	6.8
7.....	11.3	15.2	13.8	13.3	11.4	23.0	9.8	9.9	7.0	6.8	9.1	7.0
8.....	10.2	28.8	13.3	13.0	10.6	27.3	9.6	8.8	7.2	6.8	8.2	7.0
9.....	9.6	<sup>a</sup> 33.1	14.2	15.4	10.5	19.8	9.5	8.4	7.3	6.9	7.8	7.2
10.....	9.4	30.8	15.3	18.3	10.4	16.5	9.3	7.9	7.3	7.2	7.5	7.2
11.....	9.0	23.0	14.6	15.6	10.2	16.0	8.9	8.2	7.5	7.0	7.7	7.2
12.....	10.3	27.9	16.8	13.5	10.3	15.9	10.0	8.8	8.0	7.0	7.6	7.3
13.....	14.2	28.0	20.6	12.9	9.8	15.8	9.7	9.5	7.3	6.5	7.5	6.9
14.....	12.6	21.8	16.0	15.8	10.2	12.9	11.8	8.3	7.3	6.6	7.3	7.0
15.....	11.0	17.0	13.9	24.6	10.6	11.6	14.3	9.0	8.0	6.5	7.2	7.2
16.....	9.8	14.6	13.3	19.3	12.8	10.8	12.2	9.7	8.9	6.5	7.4	7.8
17.....	9.8	23.0	12.8	15.0	12.3	10.0	9.9	10.0	11.3	6.8	7.5	7.5
18.....	9.4	29.9	12.4	13.6	10.9	9.8	8.8	9.8	11.5	9.3	7.4	7.2
19.....	9.2	28.7	12.0	13.0	10.0	9.6	8.7	16.5	9.6	8.6	7.5	7.0
20.....	9.2	20.8	11.8	12.5	9.6	9.8	8.8	16.3	8.2	8.3	7.1	7.1
21.....	9.2	15.0	11.6	12.4	9.4	9.7	8.1	12.0	8.2	7.5	7.7	7.1
22.....	9.3	13.6	16.5	12.3	9.2	10.0	8.3	10.3	7.3	7.3	7.4	7.2
23.....	9.4	12.5	23.1	12.0	9.5	9.8	8.3	9.0	7.4	6.9	7.3	7.8
24.....	9.2	12.4	28.9	11.6	9.3	9.4	8.0	8.4	7.3	6.8	7.2	7.7
25.....	8.9	11.9	29.7	11.3	9.0	9.5	8.1	8.3	7.3	6.5	7.3	7.2
26.....	9.8	11.6	24.8	11.2	8.8	9.2	8.3	7.9	7.1	6.8	7.2	7.6
27.....	10.0	11.4	18.0	11.6	8.8	9.4	7.8	8.0	7.1	6.8	7.5	7.9
28.....	10.8	12.5	15.6	11.5	8.9	10.5	7.9	7.7	7.0	6.8	7.0	8.2
29.....	11.0	.....	14.5	11.1	9.1	12.9	7.6	7.5	6.9	6.6	6.8	7.8
30.....	11.8	.....	23.5	10.7	9.5	11.8	7.8	7.5	6.9	6.8	7.0	7.5
31.....	11.5	.....	27.6	.....	9.8	.....	8.2	7.5	.....	6.8	.....	7.3
Means.	10.4	18.6	17.7	14.6	10.2	13.4	9.2	9.8	7.7	7.0	7.6	7.3
<b>1904</b>												
1.....	7.3	8.0	8.8	8.6	7.4	8.0	5.9	7.0	7.3	4.5	4.6	5.5
2.....	7.1	7.9	8.7	8.5	7.4	10.4	7.4	7.1	7.0	5.0	4.3	5.4
3.....	7.3	7.9	8.6	8.4	7.1	9.5	7.0	8.5	6.9	4.6	4.5	5.8
4.....	7.0	7.8	8.7	8.2	7.2	8.3	6.0	8.8	6.3	4.4	4.6	6.4
5.....	7.2	7.5	8.5	8.1	7.3	7.6	5.8	9.0	10.5	3.9	4.8	7.4
6.....	7.2	7.8	8.1	7.9	7.5	6.8	5.0	9.2	10.6	3.8	5.8	7.0
7.....	6.9	7.5	8.6	7.8	7.3	6.4	4.6	8.3	11.5	4.5	6.5	11.0
8.....	6.7	7.8	13.8	8.0	7.1	6.8	4.0	14.0	8.7	4.4	6.3	10.4
9.....	6.8	12.0	17.6	8.8	6.8	6.8	3.8	23.2	7.6	3.8	5.8	8.6
10.....	6.9	11.6	13.3	9.6	6.9	8.2	5.5	<sup>b</sup> 24.9	6.9	4.8	5.6	8.0
11.....	7.0	13.3	11.0	9.8	9.3	7.2	6.8	21.5	6.5	4.2	5.0	7.8
12.....	7.3	13.6	9.8	8.9	8.0	6.6	6.5	15.0	6.5	3.9	5.0	7.3
13.....	7.6	11.3	9.5	8.3	7.5	5.9	6.5	12.6	6.4	4.0	5.3	6.8
14.....	7.3	10.5	9.1	8.2	7.5	6.2	5.6	10.0	6.0	3.8	6.0	6.8
15.....	7.4	8.8	9.0	8.0	7.2	6.0	4.0	9.0	6.0	4.0	6.4	6.7
16.....	7.3	8.6	9.4	7.9	7.0	5.6	4.0	10.1	5.9	3.8	6.8	6.8
17.....	7.2	8.5	9.1	7.8	7.1	5.4	5.9	11.0	5.8	4.4	6.6	6.8
18.....	7.5	8.3	8.8	7.9	7.0	5.2	3.8	9.6	5.6	4.0	5.8	7.2
19.....	7.7	8.2	8.5	7.9	6.8	5.3	5.6	8.5	5.7	3.9	5.7	7.8
20.....	7.8	8.2	8.0	7.8	6.6	5.9	3.9	7.9	5.0	3.7	5.3	7.1
21.....	7.4	8.5	8.1	7.7	6.4	5.6	4.0	10.0	4.6	4.5	5.8	7.0
22.....	7.3	13.4	8.3	7.6	6.5	6.5	3.7	9.7	5.2	3.8	5.3	6.7
23.....	11.8	17.8	9.0	7.7	6.5	7.2	3.6	7.6	5.4	3.9	4.6	6.6
24.....	13.0	16.5	11.0	7.5	6.4	6.6	10.7	7.0	4.9	4.5	5.5	6.4
25.....	12.6	13.3	13.0	7.4	6.0	5.8	7.8	6.8	5.6	4.4	5.6	6.3
26.....	10.0	10.9	12.5	7.5	6.0	5.4	9.0	6.7	5.5	3.8	5.8	6.4
27.....	8.7	9.6	10.8	7.4	6.0	5.8	8.1	8.0	4.6	3.8	5.8	6.8
28.....	8.3	9.2	10.4	7.8	5.8	4.0	7.3	10.6	4.6	4.5	6.0	7.3
29.....	8.3	<sup>c</sup> 8.9	9.8	7.8	5.8	3.9	9.9	12.5	5.2	4.5	5.3	9.4
30.....	8.2	.....	9.3	7.6	5.8	5.6	8.6	10.8	4.4	4.0	4.6	10.6
31.....	8.1	.....	8.8	.....	5.8	.....	6.8	8.3	.....	5.0	.....	8.8
Means.	8.0	10.1	9.9	9.1	6.9	6.5	6.0	10.7	6.4	4.2	5.5	7.4

<sup>a</sup> Maximum stage, 33.2.<sup>b</sup> 25.5 in early morning.

## SUSQUEHANNA RIVER SYSTEM—SUSQUEHANNA RIVER (NORTH BRANCH), BINGHAMTON, N. Y.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....				6.0	3.6	3.1	6.0	5.7	3.0	5.1	5.5	3.5
2.....				5.9	3.7	3.1	5.1	6.8	2.9	5.2	4.9	3.5
3.....				5.7	3.5	3.1	4.4	6.2	2.9	4.6	4.5	3.5
4.....				5.4	3.4	3.2	4.7	5.4	2.9	4.1	4.2	3.9
5.....				5.0	3.4	3.9	4.2	4.6	2.9	3.7	4.1	4.1
6.....				4.8	3.4	3.6	4.5	4.2	2.9	3.6	3.9	3.9
7.....				4.7	3.3	3.4	5.3	4.2	2.8	3.6	3.8	3.7
8.....				4.5	3.3	3.3	5.1	3.9	2.8	3.6	3.8	3.5
9.....				5.4	3.3	3.4	4.9	3.7	2.8	3.5	3.6	3.7
10.....				6.1	3.2	3.4	4.4	3.6	3.0	3.4	3.5	3.7
11.....				6.5	3.1	3.3	5.4	3.5	3.0	3.4	3.5	3.5
12.....				6.3	3.1	3.3	5.3	3.5	3.0	3.3	3.4	3.7
13.....				5.9	3.1	3.3	4.2	3.6	3.0	3.5	3.4	3.6
14.....				5.5	3.1	3.4	3.9	3.5	3.0	3.7	3.5	3.4
15.....				5.2	3.1	3.4	3.6	3.4	2.9	3.7	3.5	3.5
16.....				4.8	3.1	3.4	3.5	3.3	2.9	3.7	3.3	3.5
17.....				4.5	3.0	3.3	3.4	3.2	2.8	3.5	3.3	7.3
18.....				4.3	2.9	3.3	3.4	3.1	2.8	3.4	3.3	8.5
19.....				4.1	2.9	3.3	3.4	3.1	2.8	3.3	3.2	7.6
20.....				4.0	2.9	3.3	6.6	3.1	2.8	3.3	3.2	6.7
21.....				3.8	3.0	3.2	11.2	3.1	2.7	3.5	3.2	6.1
22.....				3.8	3.1	3.2	12.0	3.1	2.7	3.5	3.2	9.5
23.....				3.7	3.1	3.3	11.0	3.1	2.7	3.4	3.2	11.7
24.....				3.6	3.0	3.3	9.6	3.1	2.7	3.3	3.2	9.5
25.....				3.4	3.0	3.2	9.3	3.0	2.8	3.2	3.3	7.2
26.....				3.4	3.1	3.1	7.4	3.0	2.9	3.2	3.3	6.5
27.....				3.3	3.3	3.2	6.3	3.0	3.4	3.2	3.5	5.9
28.....				3.2	3.4	3.2	8.2	3.0	3.3	4.9	3.6	5.3
29.....				3.3	3.2	3.1	7.0	3.1	6.0	9.1	3.6	4.6
30.....				3.3	3.2	7.8	5.9	3.0	4.5	8.2	3.6	4.5
31.....					3.1		6.5	2.9		6.5		4.5
Means.....				4.6	3.2	3.4	6.0	3.7	3.1	4.1	3.6	5.3
<b>1903</b>												
1.....	4.3	10.0	13.7	7.6	3.2	2.7	4.3	3.4	7.7	2.9	3.1	2.4
2.....	4.1	8.2	12.3	6.9	3.1	2.7	3.9	3.3	6.2	3.0	2.9	2.5
3.....	4.3	8.1	9.1	6.1	3.1	2.7	3.6	3.2	5.3	3.0	2.8	2.4
4.....	5.7	8.3	7.3	5.9	3.1	2.7	3.5	3.1	4.7	3.0	2.7	2.4
5.....	6.4	10.7	6.5	5.8	3.0	2.7	3.3	3.3	4.3	3.0	2.7	2.4
6.....	5.6	9.2	7.3	5.3	3.0	2.7	3.2	3.9	4.0	3.1	2.8	2.3
7.....	4.8	7.4	7.3	5.0	3.0	2.6	3.1	4.1	3.8	3.2	3.0	2.3
8.....	4.6	6.1	6.8	5.7	3.0	2.7	3.1	3.9	3.6	3.2	2.8	2.3
9.....	4.2	5.5	11.3	6.6	3.0	2.6	3.1	3.7	3.5	7.0	2.6	2.3
10.....	6.8	5.2	11.6	6.0	3.0	2.7	3.0	3.5	3.4	15.6	2.5	2.0
11.....	6.4	5.2	11.9	5.6	3.0	2.6	3.0	3.5	3.4	17.6	2.5	2.2
12.....	6.6	5.9	12.7	5.3	2.9	2.7	3.0	3.7	3.5	14.0	2.4	2.4
13.....	6.7	7.9	10.8	4.9	2.9	6.2	3.0	3.6	3.5	9.1	2.4	2.3
14.....	7.1	7.1	8.9	4.6	2.9	4.6	2.9	3.5	3.3	6.0	2.4	3.3
15.....	6.6	6.1	7.7	5.0	2.9	4.0	2.9	3.4	3.3	5.0	2.3	2.9
16.....	6.6	5.3	7.0	4.8	2.9	3.6	2.9	3.3	3.2	4.4	2.3	3.3
17.....	6.4	4.7	6.5	4.6	2.9	3.4	2.9	3.2	3.1	3.9	4.8	2.8
18.....	6.0	4.0	6.3	4.4	2.8	3.3	2.9	3.2	3.4	6.7	6.9	2.6
19.....	5.5	4.4	6.1	4.1	2.8	3.2	3.0	3.1	3.3	9.7	5.6	2.7
20.....	5.1	4.6	5.7	3.9	2.8	3.2	3.0	3.1	3.3	8.4	4.3	2.3
21.....	4.9	4.8	5.4	3.8	2.8	3.3	3.0	3.2	3.2	7.3	3.6	3.9
22.....	7.1	4.4	6.1	3.7	2.8	4.3	3.1	3.5	3.2	6.4	3.2	5.1
23.....	7.6	4.6	6.9	3.6	2.8	5.3	3.2	3.3	3.1	5.9	3.1	4.9
24.....	6.7	4.1	13.0	3.5	2.8	5.8	5.8	3.2	3.1	5.7	3.2	4.0
25.....	5.8	4.1	12.6	3.5	2.7	5.4	4.5	3.1	3.0	5.6	3.2	3.8
26.....	5.4	4.2	10.7	3.4	2.7	5.0	3.7	3.5	3.0	5.3	2.8	3.6
27.....	5.1	3.9	8.3	3.4	2.7	4.3	3.5	4.6	3.0	5.1	2.6	3.8
28.....	5.0	5.2	7.1	3.3	2.7	3.9	3.3	4.5	3.0	5.0	2.6	3.4
29.....	5.8		6.7	3.3	2.8	3.6	3.2	10.6	3.0	5.0	2.7	3.4
30.....	9.7		6.3	3.2	2.7	4.5	3.3	11.9	2.9	5.0	2.6	3.5
31.....	11.1		6.7		2.7		3.6	9.9		5.0		3.7
Means.....	6.1	6.0	8.6	4.8	2.9	3.6				4.2	3.1	3.0

## SUSQUEHANNA RIVER SYSTEM—SUSQUEHANNA RIVER (NORTH BRANCH), BINGHAMTON, N. Y.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	3.3	3.5	3.3	7.2	5.1	2.5	2.0	2.5	2.3	4.2	3.1	3.1
2.....	3.4	4.0	3.1	9.0	4.7	2.6	2.1	2.4	2.3	3.4	3.1	2.8
3.....	3.2	3.6	3.1	8.8	4.3	2.5	2.2	2.8	2.3	3.0	3.0	3.0
4.....	4.3	3.6	6.0	7.2	3.8	2.4	2.2	3.0	2.3	2.8	2.9	2.8
5.....	3.6	3.6	8.2	6.4	3.6	2.4	2.2	2.7	2.3	2.7	2.9	3.1
6.....	3.7	2.9	7.9	6.3	3.4	2.4	2.2	3.4	2.3	2.7	2.8	2.8
7.....	3.4	3.3	6.8	6.2	3.2	2.4	2.1	3.7	2.3	2.6	3.0	2.7
8.....	3.3	9.5	11.0	7.0	3.0	2.6	2.1	2.8	2.3	2.5	2.9	2.6
9.....	3.2	11.6	13.5	7.1	2.9	3.4	2.1	2.6	2.3	2.5	2.8	2.7
10.....	3.2	11.1	12.8	8.5	2.8	4.5	2.1	2.4	2.2	2.5	2.8	2.9
11.....	3.3	8.8	10.3	8.6	2.8	3.6	2.1	2.6	2.1	2.5	2.8	2.7
12.....	3.1	7.2	8.3	7.2	2.7	3.1	2.0	2.5	2.2	2.6	2.8	3.5
13.....	2.8	6.0	7.2	6.3	2.6	2.6	2.1	2.4	2.1	5.3	2.7	2.5
14.....	2.8	5.1	6.3	5.7	2.6	2.6	2.1	2.3	2.1	5.0	2.7	2.6
15.....	3.0	4.6	5.5	5.0	2.6	2.5	2.0	2.2	2.8	3.8	2.7	2.7
16.....	3.3	5.6	4.9	4.7	3.0	2.5	2.0	2.3	3.2	3.3	2.7	2.7
17.....	3.0	6.8	4.5	4.6	3.5	2.4	2.1	2.3	2.8	3.1	2.8	2.8
18.....	3.0	5.9	3.9	4.4	3.3	2.4	2.2	2.2	2.6	2.9	2.8	2.5
19.....	3.1	5.5	3.7	4.6	3.0	2.3	2.1	2.2	2.4	2.8	2.7	2.8
20.....	3.2	5.0	3.9	4.5	3.2	2.3	2.1	2.2	2.3	2.7	2.6	2.5
21.....	2.8	4.5	4.5	4.2	3.2	2.2	2.1	2.4	2.3	2.7	2.8	2.6
22.....	2.8	4.3	4.3	4.0	2.9	2.2	2.0	3.2	2.3	7.3	3.4	2.7
23.....	6.6	4.5	6.5	4.0	2.7	2.2	2.0	4.0	2.3	7.3	3.8	2.5
24.....	7.2	5.4	11.5	3.8	2.7	2.2	1.9	4.4	2.3	5.6	3.5	2.5
25.....	8.4	5.4	11.8	3.7	2.7	2.2	2.0	3.5	3.1	4.6	3.5	3.1
26.....	6.9	4.6	15.0	4.0	2.6	2.1	2.0	3.0	3.3	4.4	3.4	3.2
27.....	5.9	4.0	16.8	3.9	2.5	2.1	2.1	2.8	3.4	4.4	3.2	2.8
28.....	5.3	3.5	13.4	5.6	2.5	2.1	2.4	2.6	2.9	4.0	3.0	7.7
29.....	4.6	3.4	9.1	6.5	2.4	2.0	2.6	2.5	2.7	3.7	2.8	10.0
30.....	4.2		7.1	5.8	2.4	2.0	3.2	2.4	2.8	3.5	2.8	1.4
31.....	3.9		6.8		2.4		2.8	2.3		3.3		5.4
Means.	4.0	5.4	7.8	5.8	3.1	2.5	2.2	2.7	2.5	3.7	3.0	3.4

## SUSQUEHANNA RIVER SYSTEM—SUSQUEHANNA RIVER (NORTH BRANCH), TOWANDA, PA.

1900												
1.....		2.0	3.3	3.7								
2.....		2.0	9.0	4.8								
3.....		2.0	7.7	6.2								
4.....		2.0	6.2	7.0								
5.....		2.4	4.5	6.0								
6.....		2.5	3.8	5.0								
7.....		3.5	4.0	6.8								
8.....		3.5	3.7	7.7								
9.....		4.0	4.2	7.1								
10.....		5.0	5.0	5.7								
11.....		5.2	4.7	4.5								
12.....		4.2	3.5	3.7								
13.....		3.6	3.0	3.7								
14.....		8.5	2.4	4.2								
15.....		8.2	2.3	4.0								
16.....		5.8	2.3	3.8								
17.....		4.0	2.1	3.9								
18.....		3.0	2.1	6.6								
19.....		2.3	2.1	7.5								
20.....		2.2	3.9	7.0								
21.....		2.2	6.0	6.2								
22.....		2.5	5.2	5.7								
23.....		11.0	4.5	5.5								
24.....		6.5	5.3	6.8								
25.....		5.0	4.8	5.7								
26.....		3.8	4.4	4.8								
27.....		2.7	3.6	3.8								
28.....		2.4	3.3	3.5								
29.....			3.3	3.0								
30.....			3.0	2.8								
31.....			3.0									
Means.		4.0	4.1	5.2								

\* 17.8 in early morning.

## SUSQUEHANNA RIVER SYSTEM—SUSQUEHANNA RIVER (NORTH BRANCH), TOWANDA, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1901												
1		Frozen.	3.1	4.7								
2			3.1	4.3								
3			3.1	4.0								
4			3.0	5.2								
5			3.0	6.0								
6			3.0	7.0								
7			3.0	10.7								
8			3.0	11.5								
9			3.0	10.0								
10			3.0	8.5								
11			5.5	7.4								
12			7.8	6.4								
13			5.2	5.8								
14			4.5	5.4								
15			4.4	5.2								
16			4.5	5.0								
17			4.2	4.6								
18			3.8	4.3								
19			4.7	4.1								
20			5.5	4.3								
21			6.1	9.7								
22			9.9	13.3								
23			8.5	9.8								
24			7.5	8.9								
25			8.0	8.4								
26			8.8	7.6								
27			13.9	6.8								
28			14.5	6.5								
29			10.9	5.6								
30			7.0	4.0								
31			5.7									
Means			5.8	6.8								
1902												
1		3.5	19.0	4.7	1.7	1.4	6.6	4.8	1.0	3.9	4.2	2.0
2		2.2	23.0	4.5	2.1	1.3	4.5	6.6	1.0	5.6	3.5	1.9
3		2.2	21.0	4.4	2.0	1.3	3.6	5.4	0.9	4.0	3.1	1.9
4		2.2	16.5	4.2	1.8	1.3	4.4	4.5	0.8	3.2	2.8	1.8
5		2.2	11.5	3.8	1.8	1.5	3.6	3.8	0.8	2.6	2.6	2.7
6		2.2	7.1	3.6	1.7	2.3	4.9	3.2	0.8	2.3	2.4	2.7
7		2.2	5.7	3.5	1.7	1.9	10.3	3.0	0.8	2.7	2.3	3.3
8		2.2	5.3	3.6	1.6	1.8	6.6	2.9	0.7	2.5	2.2	3.2
9		2.2	5.7	5.8	1.5	1.7	5.2	2.7	0.7	2.3	2.1	2.0
10		2.2	5.8	9.7	1.5	1.6	4.4	2.4	0.7	2.1	2.0	1.8
11		2.2	6.3	7.3	1.4	1.6	6.0	2.3	0.7	2.0	1.9	1.7
12		2.2	7.9	6.5	1.3	1.5	5.0	2.4	0.7	1.9	1.8	1.8
13		2.2	11.0	5.5	1.3	1.5	4.0	2.4	1.1	2.0	1.7	1.8
14		2.2	12.0	5.1	1.2	1.4	3.3	2.3	1.1	2.1	1.7	1.8
15		2.2	10.6	4.6	1.2	1.4	2.7	2.2	1.0	2.4	1.7	2.0
16		2.2	10.0	4.1	1.1	1.5	2.5	2.0	0.9	2.4	1.7	2.0
17		2.2	11.7	3.7	1.0	1.6	2.3	1.8	0.8	2.2	1.6	5.6
18		2.2	12.3	3.4	1.0	1.5	2.1	1.6	0.8	2.0	1.6	6.9
19		2.2	9.9	3.2	1.0	1.4	2.3	1.4	0.7	1.8	1.6	6.3
20		2.2	7.8	3.0	0.9	1.4	2.8	1.4	0.7	1.7	1.7	5.3
21		2.2	5.7	2.8	1.0	1.4	9.8	1.3	0.7	2.1	1.6	4.8
22		2.2	5.7	2.7	1.0	1.4	10.9	1.3	0.6	2.1	1.6	8.1
23		2.2	5.0	2.5	1.1	1.4	9.7	1.3	0.6	2.0	1.6	11.5
24		2.2	5.0	2.4	1.1	1.4	8.1	1.2	0.6	1.8	1.7	9.2
25		2.2	4.9	2.2	1.0	1.3	8.7	1.2	0.6	1.7	1.6	6.4
26		2.2	4.5	2.0	1.1	1.3	7.9	1.2	0.8	1.7	1.5	5.1
27		2.8	4.1	1.9	1.5	1.2	6.1	1.1	1.0	1.6	1.8	4.4
28		5.9	3.8	1.8	2.0	1.2	6.0	1.0	1.2	1.9	2.1	4.0
29			4.3	1.7	1.7	1.3	6.5	1.1	3.9	6.5	2.4	3.4
30			5.3	1.7	1.5	4.0	5.7	1.1	4.7	6.4	2.2	3.0
31			5.0		1.5		4.8	1.1		6.0		3.0
Means		2.4	8.8	3.9	1.4	1.6	5.5	2.3	1.0	2.8	2.1	3.9

\*24.5 at 1 a. m.

## DESCRIPTION OF RIVER GAGES, ETC.

## SUSQUEHANNA RIVER SYSTEM—SUSQUEHANNA RIVER (NORTH BRANCH), TOWANDA, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	3.5	8.0	14.4	7.1	1.5	0.5	3.1	1.7	7.8	0.5	2.5	2.0
2.....	3.6	6.8	11.7	6.0	1.4	0.5	2.6	1.5	5.8	0.6	2.4	2.0
3.....	2.9	7.0	8.6	5.5	1.3	0.5	2.2	1.2	4.6	0.8	2.2	2.0
4.....	4.2	7.5	6.3	4.8	1.2	0.4	1.9	1.1	3.7	1.0	2.0	1.8
5.....	5.0	13.5	5.8	5.5	1.1	0.4	1.8	2.8	3.1	1.1	1.9	1.7
6.....	4.5	9.8	6.1	4.5	1.1	0.4	<sup>a</sup> 1.7	3.6	2.8	1.2	1.8	1.5
7.....	4.2	6.9	6.5	4.0	1.1	0.4	4.0	3.4	2.5	2.1	2.1	1.5
8.....	3.4	5.5	5.9	4.0	1.1	0.4	2.3	3.0	2.2	1.9	2.2	1.5
9.....	3.0	4.4	11.5	5.0	1.1	0.4	1.8	2.5	2.0	6.7	2.2	1.5
10.....	2.6	3.8	11.8	5.0	1.1	0.4	1.4	2.4	1.8	12.0	2.0	1.5
11.....	2.4	3.8	11.0	4.5	1.0	0.4	1.2	2.0	1.9	15.2	1.9	1.4
12.....	2.2	4.2	12.6	4.1	1.0	0.6	1.1	2.3	2.8	14.2	1.8	1.3
13.....	Frozen.	4.5	10.5	4.0	0.9	1.1	1.1	2.1	2.4	9.8	1.7	1.4
14.....		5.9	8.4	3.6	0.9	3.6	1.0	1.8	2.0	6.2	1.6	1.3
15.....		4.9	6.9	7.1	0.8	2.6	0.9	1.5	1.8	4.9	1.5	1.3
16.....		4.1	6.0	6.8	0.8	2.4	0.8	1.3	1.5	4.1	1.5	1.3
17.....	4.0	3.7	5.8	5.5	0.8	1.9	0.8	1.2	1.3	3.7	3.8	1.3
18.....	3.8	2.5	5.1	4.6	0.7	1.6	0.8	1.1	1.3	6.0	8.5	1.3
19.....	3.4	2.5	4.9	3.9	0.7	1.5	1.5	1.0	1.9	7.7	6.3	1.3
20.....	3.3	2.5	4.5	3.4	0.7	1.3	1.9	1.2	1.7	6.6	4.5	1.3
21.....	3.5	2.5	4.3	3.0	0.7	2.3	2.0	2.6	1.6	5.3	3.6	3.5
22.....	3.6	2.5	5.0	2.8	0.7	4.3	1.6	2.2	1.5	4.4	3.0	5.0
23.....	4.4	3.0	6.6	2.6	0.6	3.9	1.5	1.3	1.3	3.8	2.8	5.3
24.....	4.3	2.8	<sup>b</sup> 14.8	2.4	0.6	5.3	1.7	1.5	1.1	3.5	2.8	5.0
25.....	4.0	2.6	12.4	2.3	0.6	4.9	3.0	1.2	1.0	3.3	2.7	4.5
26.....	3.5	2.6	10.1	2.2	0.5	6.5	2.2	1.3	0.9	3.1	2.7	4.3
27.....	3.0	2.4	7.6	2.1	0.5	4.4	1.6	2.3	0.8	2.9	2.5	4.0
28.....	2.9	2.7	6.0	1.9	0.5	3.4	1.5	3.0	0.7	2.7	2.3	3.0
29.....	3.3		5.3	1.7	0.5	2.8	1.2	7.2	0.6	2.7	2.1	2.6
30.....	7.8		4.8	1.6	0.5	3.0	1.8	<sup>c</sup> 14.5	0.5	2.7	2.0	2.6
31.....	10.8		5.7		0.5		1.5	10.7		2.5		2.6
Means.	4.0	4.7	8.0	4.0	0.9	2.1	1.7	2.8	2.2	4.6	2.7	2.3
<b>1904</b>												
1.....	2.6	3.2	2.4	6.5	5.7	3.6	0.7	1.7	0.9	2.7	2.0	1.4
2.....	2.6	3.0	1.9	9.3	5.3	3.4	0.8	1.4	0.8	2.4	1.9	1.6
3.....	2.6	3.0	1.8	8.7	4.4	3.0	0.9	2.3	0.7	2.2	1.8	1.5
4.....	4.0	2.9	5.5	7.3	3.8	2.6	1.0	2.5	0.8	1.8	1.6	1.4
5.....	4.0	2.8	5.0	5.8	3.4	5.3	1.0	2.1	0.8	1.7	1.5	1.3
6.....	4.0	2.8	5.0	5.4	3.1	3.6	1.0	1.8	0.8	1.5	1.5	1.2
7.....	4.0	2.4	4.7	5.4	2.9	2.8	1.0	2.2	0.8	1.4	1.7	1.1
8.....	4.0	11.8	12.5	5.8	2.7	2.5	0.9	2.2	0.8	1.3	1.6	1.4
9.....	4.0	9.7	11.2	6.1	2.4	2.7	0.9	1.7	0.8	1.2	1.6	2.0
10.....	4.0	7.8	8.8	9.1	2.3	5.6	0.9	1.3	0.7	1.1	1.5	2.2
11.....	4.0	6.5	7.1	9.4	2.2	4.3	1.2	1.2	0.7	1.0	1.5	Frozen.
12.....	4.0	5.2	5.3	7.4	2.0	3.2	1.5	1.2	0.7	1.0	1.5	
13.....	4.0	4.3	4.3	6.2	1.9	2.8	1.4	1.2	0.7	2.5	1.5	
14.....	4.0	3.7	3.7	5.4	1.7	2.2	1.4	1.0	0.7	4.5	1.5	
15.....	4.0	3.3	3.5	4.7	2.0	1.9	1.2	0.9	0.7	3.5	1.5	
16.....	4.0	2.6	3.1	4.2	3.8	1.9	1.0	0.8	1.6	2.6	1.5	
17.....	4.0	2.3	2.8	4.0	4.0	2.3	0.9	0.7	1.7	2.3	1.4	
18.....	4.0	3.0	2.8	3.9	3.5	1.8	0.9	0.7	1.5	2.0	1.4	
19.....	4.0	3.0	2.8	4.0	4.5	1.5	1.2	0.7	1.3	1.8	1.4	
20.....	4.0	3.0	3.4	4.1	6.3	1.4	1.4	0.7	1.0	1.7	1.3	
21.....	4.0	3.0	4.6	3.8	4.3	1.3	1.2	0.6	0.9	1.6	1.3	
22.....	4.0	2.2	4.1	3.5	3.7	1.3	1.0	1.5	0.8	4.6	1.3	
23.....	<sup>d</sup> 9.0	2.0	7.0	3.6	3.0	1.2	0.9	2.0	0.8	5.8	2.3	
24.....	9.4	2.7	11.2	3.5	2.8	1.1	0.8	3.4	0.8	4.8	2.2	
25.....	7.2	3.3	11.0	3.4	3.2	1.0	1.0	2.9	0.8	3.6	2.1	
26.....	6.0	3.3	15.2	3.5	2.8	1.0	1.0	2.1	2.6	3.0	2.0	2.5
27.....	5.0	2.8	17.0	3.6	2.5	1.0	1.0	1.8	2.2	3.2	1.9	3.0
28.....	4.0	2.6	13.9	5.5	2.7	0.9	1.0	1.6	2.0	2.9	1.8	5.9
29.....	3.6	2.6	9.9	7.5	2.4	0.8	1.3	1.4	1.8	2.6	1.6	8.8
30.....	3.5		5.9	6.9	2.1	0.7	1.7	1.2	1.7	2.4	1.5	6.5
31.....	3.4		5.9		2.1		2.0	1.0		2.2		4.8
Means.	4.4	3.8	6.6	5.6	3.2	2.3	1.1	1.5	1.1	2.5	1.6	2.9

<sup>a</sup> 5.2 at 6 p.m.<sup>b</sup> 15.5 at 3 p.m.<sup>c</sup> 15.2 during night of 30th and 31st.<sup>d</sup> 12.0 at 2 p.m.



## DESCRIPTION OF RIVER GAGES, ETC.

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SUSQUEHANNA RIVER SYSTEM—SUSQUEHANNA RIVER (NORTH BRANCH), WILKES-BARRE, PA.<sup>a</sup>

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	4.0	5.8	9.4	2.4	2.0	-1.0	0.0	0.0	-2.0	-2.4	-0.8	8.5
2.....	4.0	5.4	16.0	2.4	1.5	-1.0	0.0	-0.5	-2.0	-2.4	-1.4	7.4
3.....	4.0	5.1	12.5	2.4	1.2	-1.0	-0.4	-0.8	-2.0	-2.0	-1.6	6.8
4.....	4.0	5.0	9.2	7.4	1.0	-1.0	-0.8	-1.0	-2.0	-1.2	-2.2	6.0
5.....	4.0	5.0	8.1	11.5	0.6	-1.0	-1.0	-1.2	-2.0	-1.0	-2.2	7.0
6.....	4.0	4.9	6.2	10.0	0.3	-0.5	-1.0	-1.5	-2.0	-1.0	-2.2	8.5
7.....	4.0	4.8	4.8	6.6	0.0	-0.5	-1.0	-1.8	-2.0	-1.0	-2.2	8.5
8.....	4.0	4.8	4.4	8.2	0.0	-1.0	-0.5	-2.0	-2.0	-1.0	-2.2	8.5
9.....	4.0	14.0	4.0	9.0	0.0	-1.0	-0.5	-2.0	-2.0	-1.0	-1.8	8.0
10.....	3.9	10.5	4.0	7.5	0.0	-0.5	0.0	-2.0	-2.0	-1.0	-1.2	7.4
11.....	3.8	10.0	3.5	7.0	0.0	1.0	0.0	-2.0	-2.1	-1.0	-0.5	7.4
12.....	3.7	9.5	3.1	6.1	0.0	1.4	0.0	-2.0	-2.2	-0.7	0.0	6.8
13.....	3.6	8.4	2.8	5.0	0.0	1.6	0.0	-2.0	-2.2	-0.7	0.0	6.5
14.....	3.4	7.5	2.6	4.4	0.0	2.0	-0.4	-1.2	-2.3	-0.7	0.5	6.4
15.....	3.1	10.5	2.4	4.2	0.0	2.0	-0.8	-0.8	-2.4	-0.7	0.5	6.3
16.....	2.9	10.0	2.2	4.0	0.0	1.0	-1.2	-1.5	-2.4	-0.7	0.5	6.0
17.....	2.9	9.1	6.0	4.0	0.0	1.0	-1.2	-2.0	-2.4	-0.7	1.0	5.9
18.....	2.9	7.2	5.1	6.5	0.0	0.8	-1.2	-2.0	-2.5	-0.7	1.0	5.9
19.....	4.1	6.0	5.1	10.4	1.0	0.6	-1.2	-2.0	-2.6	-0.7	0.2	5.7
20.....	4.1	6.5	4.2	11.2	1.0	0.4	-1.2	-2.0	-2.7	-0.4	0.2	5.4
21.....	13.5	5.2	6.2	8.1	1.0	0.2	0.5	-2.0	-2.8	-0.4	0.2	5.2
22.....	15.0	6.1	7.4	7.6	1.0	0.0	1.0	-2.0	-2.9	-0.4	0.2	5.0
23.....	10.5	12.0	9.3	8.4	2.4	0.0	0.4	-2.0	-3.0	-0.4	0.2	4.8
24.....	8.2	10.5	11.1	12.1	2.0	0.0	0.0	-2.0	-3.1	-0.4	0.6	4.6
25.....	8.0	9.0	11.6	10.2	1.8	0.0	0.0	-2.0	-3.1	0.0	0.6	4.5
26.....	8.0	7.2	12.1	7.4	1.2	-0.5	1.2	-2.0	-3.1	0.0	0.8	8.4
27.....	7.2	6.4	6.1	7.0	0.8	-0.5	1.0	-2.0	-3.1	0.0	16.4	8.4
28.....	6.5	5.0	6.0	5.1	0.1	0.0	0.6	-2.0	-2.5	0.0	23.6	9.0
29.....	6.0	.....	5.2	3.4	-0.3	0.0	0.6	-2.0	-2.4	0.0	16.1	10.2
30.....	5.8	.....	3.6	2.5	-0.7	0.0	0.4	-2.0	-2.4	0.0	8.5	8.6
31.....	5.8	.....	2.4	.....	-1.0	.....	0.0	-2.0	.....	0.0	.....	8.6
Means.	5.4	7.6	6.3	6.7	0.5	0.1	-0.2	-1.7	-2.4	-0.7	1.8	7.0
<b>1901</b>												
1.....	8.0	7.5	4.1	6.1	4.2	12.2	0.0	1.3	2.0	-0.5	-0.7	2.1
2.....	7.6	7.5	4.0	4.8	4.2	10.0	0.0	1.2	2.6	-0.7	-0.9	3.4
3.....	7.6	7.1	3.8	4.3	4.2	7.9	0.0	1.1	3.1	-0.8	-1.1	3.4
4.....	7.6	6.9	3.6	5.2	4.4	6.8	0.0	1.0	2.4	-1.0	-1.1	5.1
5.....	7.6	6.9	3.4	6.8	4.5	6.0	-0.2	1.0	1.8	-1.2	-1.1	6.3
6.....	7.6	6.9	3.0	7.9	4.3	5.4	-0.2	1.0	1.7	-1.2	-1.1	4.4
7.....	7.6	6.2	2.7	11.2	4.0	7.6	-0.2	1.0	1.5	-1.2	-1.1	4.4
8.....	7.6	5.8	2.6	14.4	4.0	7.8	-0.5	1.0	0.8	-1.2	-1.1	4.4
9.....	7.6	5.8	2.4	13.8	3.8	7.0	-0.6	1.0	-1.0	-1.2	-1.1	4.7
10.....	7.6	5.8	2.7	11.0	3.4	6.4	-0.8	1.3	-1.2	-1.2	-1.1	6.3
11.....	7.6	5.8	4.2	9.6	3.4	5.9	-0.9	1.5	-1.2	-1.2	-1.1	5.7
12.....	7.6	5.8	12.5	8.5	5.8	5.2	-1.0	1.5	-1.2	-1.2	-0.7	5.7
13.....	7.6	5.8	8.5	8.0	6.1	4.6	-1.1	1.5	-1.2	-1.2	-0.4	5.9
14.....	7.6	5.0	6.1	7.4	6.1	3.8	-1.1	1.4	-1.2	-1.2	-0.4	6.4
15.....	8.9	4.6	5.0	6.0	6.0	3.0	-1.1	1.4	-1.2	1.6	0.2	24.0
16.....	11.5	4.2	4.3	5.4	4.8	2.7	-1.1	1.4	-1.2	1.6	0.2	23.2
17.....	11.0	4.2	4.0	5.2	4.2	2.0	-1.1	3.5	-1.2	1.7	1.5	20.6
18.....	11.0	4.2	3.8	4.9	4.0	1.2	-1.2	1.6	-1.2	1.8	1.0	11.0
19.....	11.0	4.2	3.4	4.0	3.5	0.4	-1.2	1.0	0.8	1.8	0.8	8.2
20.....	10.4	4.1	3.4	3.9	3.5	-0.6	-1.2	1.0	0.4	1.4	0.6	8.0
21.....	10.0	4.1	4.2	5.2	3.5	-0.4	-1.3	3.2	-0.6	1.2	0.3	7.6
22.....	9.2	4.1	10.5	10.5	4.0	-0.3	-1.3	3.0	-0.6	1.0	-0.2	7.2
23.....	9.0	4.1	10.0	14.3	4.4	1.4	-1.4	3.4	-0.8	0.8	-0.2	7.0
24.....	8.4	4.1	9.6	12.2	4.4	2.0	-1.4	4.0	-1.0	0.6	-0.2	7.0
25.....	8.2	4.1	9.4	9.6	4.6	2.2	-1.4	5.1	-1.0	0.5	1.7	7.0
26.....	7.7	4.1	9.4	9.2	4.8	1.8	-0.8	4.2	-1.0	0.3	5.0	7.0
27.....	7.7	4.1	13.9	8.4	5.6	1.2	-1.0	3.1	-0.8	0.0	3.4	7.9
28.....	7.7	4.1	17.2	7.1	6.0	0.8	-1.2	2.0	-0.8	-0.4	2.1	9.8
29.....	7.5	.....	15.3	6.5	6.1	0.0	-1.3	2.0	-0.9	-0.6	2.1	9.6
30.....	7.5	.....	10.8	4.8	11.0	0.0	-1.3	1.8	-1.0	-0.6	2.6	9.5
31.....	7.5	.....	7.2	.....	14.1	.....	-1.3	1.7	.....	-0.6	.....	7.8
Means.	8.4	5.3	6.6	7.9	5.1	3.8	-0.9	1.9	-0.1	-0.1	0.3	8.1

<sup>a</sup> For corrections to be applied to reduce to zero of gage in use on and after May 1, 1902, see description of gage.

## SUSQUEHANNA RIVER SYSTEM—SUSQUEHANNA RIVER (NORTH BRANCH), WILKES-BARRE, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1902												
1.....	7.6	6.5	24.4	5.2	5.0	4.1	9.6	8.8	3.6	9.6	9.5	5.1
2.....	7.0	6.5	27.3	6.1	4.9	4.0	10.5	9.5	3.5	10.6	8.2	5.0
3.....	6.4	6.5	26.4	7.4	5.1	3.9	8.3	11.1	3.4	10.6	7.4	5.0
4.....	5.6	6.2	22.5	6.2	5.1	3.9	7.8	9.6	3.4	8.5	6.8	5.2
5.....	5.3	6.2	17.3	7.2	4.8	3.8	8.5	8.8	3.2	7.3	6.4	5.5
6.....	5.0	5.7	12.0	7.2	4.8	3.8	7.5	7.5	3.2	7.1	6.0	5.9
7.....	4.8	5.4	7.4	8.1	4.7	4.8	11.6	6.8	3.2	6.9	5.8	5.8
8.....	4.6	4.8	6.1	8.0	4.7	4.5	14.9	6.5	3.2	6.7	5.5	5.5
9.....	4.4	4.2	5.4	8.0	4.5	4.4	10.8	6.2	3.2	6.2	5.6	5.2
10.....	4.2	4.2	5.4	12.5	4.4	4.2	8.9	5.8	3.2	5.8	5.7	5.9
11.....	3.9	4.2	5.2	11.1	4.3	4.2	9.0	5.6	3.6	5.3	5.0	7.2
12.....	3.7	4.2	8.4	9.8	4.2	4.2	9.7	5.5	3.5	5.8	4.7	8.0
13.....	3.5	3.5	14.1	9.0	4.1	4.1	8.5	5.4	3.6	6.5	4.7	8.4
14.....	3.2	3.2	15.5	8.5	4.0	4.2	7.4	5.4	3.5	6.0	4.7	10.2
15.....	2.8	2.8	14.4	5.2	3.9	4.2	6.3	5.2	3.5	5.8	4.7	9.2
16.....	2.5	2.8	13.0	5.1	3.8	4.2	5.8	5.0	3.4	5.9	4.6	8.9
17.....	2.2	2.8	15.1	5.0	3.8	5.0	5.4	4.6	3.3	5.9	4.5	12.0
18.....	2.2	2.6	16.2	5.0	3.7	4.7	5.2	4.4	3.3	5.6	4.4	12.5
19.....	2.2	2.6	14.2	5.0	3.7	4.4	5.1	4.2	3.2	5.3	4.3	12.4
20.....	2.2	2.6	13.1	4.6	3.6	4.6	5.4	4.1	3.1	4.9	4.2	11.3
21.....	2.2	2.6	11.2	4.2	3.5	4.3	8.2	4.0	3.1	4.8	4.2	10.0
22.....	4.5	2.6	10.4	3.7	3.5	4.3	15.9	4.0	3.0	4.9	4.2	<sup>b</sup> 14.3
23.....	14.4	2.8	9.6	3.2	3.5	4.2	15.4	4.0	3.0	5.2	4.1	<sup>c</sup> 17.8
24.....	6.6	3.0	7.4	2.6	3.7	4.2	13.8	3.9	3.0	5.0	4.1	17.0
25.....	6.5	3.0	6.7	2.4	3.7	4.2	13.0	3.9	3.0	4.7	4.1	13.7
26.....	6.5	4.1	6.0	2.0	3.7	4.2	14.9	3.8	4.2	4.7	4.1	11.0
27.....	6.4	4.7	5.4	1.8	3.8	4.1	11.7	3.7	7.1	4.6	4.5	9.7
28.....	7.2	6.2	4.8	1.6	3.9	3.9	9.7	3.6	6.0	5.6	4.7	8.5
29.....	7.2	.....	4.0	1.5	4.6	3.8	10.8	3.6	7.9	10.1	5.0	8.0
30.....	7.0	.....	3.6	1.5	4.6	5.1	10.6	3.6	10.3	12.2	5.2	7.0
31.....	6.6	.....	3.2	.....	4.2	.....	9.3	3.6	.....	11.1	.....	6.8
Means.	5.1	4.2	11.5	5.6	4.2	4.2	9.7	5.2	3.9	6.7	5.2	9.0
1903												
1.....	8.5	15.3	19.3	11.2	4.8	3.0	6.9	4.6	14.3	3.6	5.9	7.5
2.....	11.0	13.1	21.4	12.0	4.6	3.0	6.8	4.6	11.9	3.6	5.9	7.6
3.....	12.2	13.0	16.9	10.7	4.4	3.0	6.1	4.3	9.9	3.6	5.7	7.8
4.....	13.0	13.7	13.6	9.7	4.3	2.9	5.5	4.0	8.4	3.6	5.5	7.0
5.....	13.5	17.5	11.3	9.8	4.2	2.9	5.4	4.8	7.4	3.6	5.3	5.5
6.....	9.7	18.3	10.5	9.9	4.1	2.9	5.5	6.7	6.7	3.7	5.3	4.8
7.....	8.1	13.9	12.1	8.7	4.0	2.9	5.0	7.9	6.2	3.8	5.3	4.5
8.....	7.9	11.3	11.6	8.8	4.0	2.9	7.3	7.6	5.8	4.7	5.5	4.5
9.....	6.9	10.0	13.2	10.6	4.0	3.0	5.4	6.8	5.5	6.0	5.6	4.6
10.....	6.8	8.6	19.4	10.8	3.8	3.0	4.8	6.0	5.3	18.5	5.3	4.4
11.....	10.7	8.0	17.5	9.8	3.7	2.9	4.4	5.7	5.2	<sup>d</sup> 21.2	5.2	4.3
12.....	10.0	8.5	19.0	9.0	3.7	3.6	4.3	5.4	5.3	21.8	5.0	4.0
13.....	9.5	9.1	18.2	8.9	3.6	6.6	4.0	5.5	6.0	19.0	4.9	4.2
14.....	9.1	11.0	15.7	8.3	3.5	5.0	3.8	5.2	5.6	14.0	4.8	5.0
15.....	9.1	10.8	13.3	9.7	3.5	7.5	3.7	4.9	5.2	10.8	4.7	4.8
16.....	10.0	9.3	11.7	14.4	3.5	6.4	3.6	4.7	4.8	9.3	4.5	5.8
17.....	10.5	8.4	10.6	12.3	3.4	5.8	3.6	4.5	4.6	8.3	5.2	6.6
18.....	10.4	7.4	9.9	10.5	3.4	5.2	3.4	4.3	5.2	8.6	12.6	6.8
19.....	9.6	10.0	9.6	9.0	3.3	5.0	4.3	3.9	4.8	12.3	14.0	6.3
20.....	8.7	9.2	9.2	8.0	3.3	4.8	4.6	3.7	5.0	12.7	11.1	5.8
21.....	8.6	9.4	8.7	7.3	3.3	4.7	4.8	3.8	4.8	11.2	9.0	8.9
22.....	9.4	10.0	8.3	6.8	3.5	5.0	5.1	5.6	4.7	9.7	7.4	9.0
23.....	9.8	10.5	10.2	6.4	3.3	8.0	4.7	5.3	4.4	8.6	7.0	8.4
24.....	10.4	10.9	20.2	6.1	3.3	8.2	4.4	5.0	4.2	7.8	6.5	8.0
25.....	10.0	11.2	<sup>e</sup> 22.3	5.9	3.1	9.7	4.4	4.6	4.0	7.3	6.5	7.5
26.....	9.6	10.4	18.0	5.7	3.1	9.3	6.1	4.4	3.9	7.1	6.4	7.1
27.....	8.7	9.6	15.4	5.5	3.1	10.2	5.2	4.3	3.8	6.8	6.1	7.2
28.....	8.2	10.2	12.5	5.3	3.1	8.0	4.5	5.4	3.8	6.5	5.8	10.4
29.....	8.2	.....	10.7	5.1	3.0	6.9	4.1	7.3	3.7	6.3	6.3	9.7
30.....	10.8	.....	9.9	4.9	3.0	7.6	4.2	<sup>f</sup> 17.6	3.6	6.1	8.0	9.2
31.....	17.7	.....	9.8	.....	3.0	.....	4.7	18.2	.....	5.9	.....	8.4
Means.	9.9	11.0	13.9	8.7	3.6	5.3	4.9	6.0	5.8	8.9	6.5	6.6

<sup>a</sup> For corrections to be applied to reduce to zero of gage in use on and after May 1, 1902, see description of gage.  
<sup>c</sup> 18.2 at 1 p. m.

<sup>d</sup> 22.0 at 12 midnight.

<sup>e</sup> Maximum stage, 22.4.

<sup>b</sup> 16.1 at 1 p. m.  
<sup>f</sup> 20.0 at 7 p. m.

## SUSQUEHANNA RIVER SYSTEM—SUSQUEHANNA RIVER (NORTH BRANCH), WILKES-BARRE, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	9.0	14.0	10.8	11.2	11.5	5.7	3.5	4.8	3.7	4.8	5.3	4.2
2.....	8.9	13.0	10.9	15.1	10.5	7.4	3.5	4.4	3.6	5.4	5.1	4.1
3.....	8.5	12.3	11.1	15.8	9.4	7.0	3.5	4.2	3.5	5.9	4.9	4.2
4.....	7.2	11.6	13.3	14.0	8.4	6.4	3.5	4.3	3.4	5.2	4.8	4.2
5.....	6.5	11.0	18.0	12.0	7.6	6.0	3.5	5.3	3.4	4.7	4.6	3.6
6.....	6.7	10.6	17.2	10.7	7.0	9.1	3.5	5.0	3.3	4.5	4.5	3.3
7.....	7.2	11.2	17.5	10.2	6.7	7.4	3.6	4.4	3.3	4.3	4.5	3.5
8.....	7.2	16.0	28.4	10.5	6.3	6.4	3.7	4.6	3.3	4.0	4.5	3.6
9.....	7.3	24.1	30.6	11.0	6.0	6.6	4.2	5.0	3.5	4.0	4.5	3.3
10.....	7.4	<sup>a</sup> 24.5	26.6	11.7	5.7	11.6	3.8	4.4	3.5	3.9	4.5	3.2
11.....	7.3	24.0	24.0	16.2	5.5	10.9	3.7	4.6	3.3	3.8	4.4	3.1
12.....	7.1	22.0	22.0	14.3	5.2	8.5	4.1	4.0	3.3	3.8	4.4	3.3
13.....	7.0	20.3	19.3	12.1	5.0	7.1	4.5	3.9	3.2	3.9	4.3	3.2
14.....	7.0	18.2	17.4	10.8	4.8	6.2	4.2	3.8	3.1	7.0	4.2	3.3
15.....	6.7	17.1	15.9	9.7	4.8	5.6	3.9	3.6	3.6	8.3	4.3	3.2
16.....	6.4	15.7	14.9	8.9	6.1	5.2	3.8	3.5	5.5	6.9	4.3	3.3
17.....	6.2	14.7	14.0	8.3	8.0	5.1	3.6	3.4	4.3	6.0	4.3	3.3
18.....	6.0	12.9	13.0	8.0	7.9	5.6	3.9	3.3	4.8	5.5	4.4	3.3
19.....	5.9	12.6	12.5	7.9	7.1	4.8	3.6	3.3	4.4	5.1	4.3	3.2
20.....	5.6	12.9	12.8	7.9	10.7	4.5	3.7	3.2	4.1	4.8	4.3	3.4
21.....	5.6	12.7	13.6	7.8	10.2	4.3	4.2	3.2	3.8	4.7	4.3	3.4
22.....	5.7	12.7	12.2	7.4	8.5	4.1	3.8	3.3	3.6	8.6	4.6	3.3
23.....	<sup>b</sup> 9.3	13.7	8.5	7.1	7.3	4.3	3.5	3.7	3.4	10.2	4.6	3.3
24.....	18.0	13.0	16.0	7.1	6.5	4.0	3.4	4.9	3.4	10.2	5.3	3.5
25.....	14.5	12.7	16.9	7.0	6.5	3.9	3.3	6.4	3.4	8.8	5.5	3.6
26.....	12.0	12.6	18.8	6.9	6.7	3.8	3.4	5.8	4.0	7.4	5.2	3.3
27.....	10.8	12.0	22.9	7.2	6.5	3.7	3.7	5.3	5.4	6.9	5.0	3.5
28.....	9.0	12.0	22.7	7.9	5.9	3.5	3.6	4.6	5.3	6.7	4.8	8.0
29.....	8.2	11.5	18.4	12.4	6.0	3.5	3.6	4.3	5.2	6.4	4.2	13.7
30.....	9.2	.....	14.2	12.8	5.5	3.4	3.8	4.1	4.7	6.0	4.2	13.3
31.....	12.6	.....	11.7	.....	5.3	.....	4.1	3.9	.....	5.9	.....	10.8
Means.	8.3	14.9	17.0	10.3	7.1	5.9	3.7	4.3	3.9	5.9	4.6	4.5

## SUSQUEHANNA RIVER SYSTEM—SUSQUEHANNA RIVER (NORTH BRANCH), EAST BLOOMSBURG, PA.

1900												
1.....	4.5	3.5	6.0	4.5	8.5	3.0	1.0	1.0	0.0	0.0	0.0	9.0
2.....	4.5	3.5	14.0	4.8	8.5	3.0	1.0	1.0	0.0	0.0	0.0	8.5
3.....	4.0	3.5	11.0	5.0	8.5	3.0	1.0	1.0	0.0	0.0	0.0	8.0
4.....	4.0	3.5	9.0	5.0	9.0	3.0	1.0	1.0	0.0	0.0	0.0	8.0
5.....	4.0	4.5	8.0	5.0	9.5	3.0	1.0	1.0	0.0	0.0	0.0	8.0
6.....	4.0	4.5	7.5	5.0	10.0	3.0	1.0	1.0	0.0	0.0	0.0	7.5
7.....	4.0	5.0	6.0	5.0	10.5	3.0	1.0	1.0	0.0	0.0	0.0	6.5
8.....	4.0	5.0	5.5	8.0	10.5	3.0	1.0	0.5	0.0	0.0	0.0	5.5
9.....	4.0	5.0	5.0	10.0	9.5	3.0	1.0	0.5	0.0	0.0	0.0	3.5
10.....	4.0	5.5	5.0	11.0	8.5	3.0	1.0	0.5	0.0	0.0	0.0	2.5
11.....	4.0	6.0	5.0	11.0	7.0	3.0	1.0	0.5	0.0	0.0	0.0	2.5
12.....	4.0	6.5	5.0	10.5	5.5	4.0	1.0	0.5	0.0	0.0	0.0	2.5
13.....	4.0	6.0	5.0	9.0	5.0	4.0	1.0	0.5	0.0	0.0	0.0	2.5
14.....	4.0	8.0	4.5	9.0	4.5	4.0	1.0	0.5	0.0	0.0	0.0	2.5
15.....	4.0	10.0	4.5	10.0	4.0	4.0	1.0	0.0	0.0	0.0	0.0	2.5
16.....	4.0	9.0	4.0	10.5	3.5	3.5	1.0	0.0	0.0	0.0	0.0	2.5
17.....	4.0	8.5	4.0	10.5	3.0	3.0	1.0	0.0	0.0	0.0	0.0	2.5
18.....	4.0	5.5	4.0	10.0	3.0	3.0	1.0	0.0	0.0	0.0	0.0	2.5
19.....	4.0	5.0	4.0	9.0	3.5	3.0	1.0	0.0	0.0	0.0	0.0	2.5
20.....	4.0	3.0	3.5	8.0	3.5	3.0	1.0	0.0	0.0	0.0	0.0	2.5
21.....	6.0	3.0	6.0	8.0	4.0	3.0	1.0	0.0	0.0	0.0	12.0	2.5
22.....	11.0	4.0	7.0	8.0	3.5	3.0	1.0	0.0	0.0	0.0	15.0	2.5
23.....	10.0	11.0	6.5	11.0	3.0	2.5	1.0	0.0	0.0	0.0	14.0	2.5
24.....	8.0	12.0	6.0	11.0	3.0	2.0	1.0	0.0	0.0	0.0	12.0	2.5
25.....	6.5	8.5	5.5	10.5	3.0	2.0	1.0	0.5	0.0	0.0	10.5	2.5
26.....	5.5	6.0	5.5	9.5	3.0	1.5	1.5	0.5	0.0	0.0	8.5	2.5
27.....	5.5	4.5	5.5	8.5	3.0	1.0	1.5	0.5	0.0	0.0	7.0	2.5
28.....	5.5	3.0	5.5	8.5	3.0	1.0	1.0	0.0	0.0	0.0	9.0	2.5
29.....	4.5	.....	5.0	8.5	3.0	1.0	1.0	0.0	0.0	0.0	11.0	2.5
30.....	3.5	.....	4.5	8.5	3.0	1.0	1.0	0.0	0.0	0.0	10.0	2.5
31.....	3.5	.....	4.5	.....	3.0	.....	1.0	0.0	.....	0.0	.....	2.5
Means.	4.9	5.8	5.9	8.4	5.5	2.8	1.0	0.4	0.0	0.0	3.6	3.9

<sup>a</sup> 25.7 during day.<sup>b</sup> 20.5 during day.

## SUSQUEHANNA RIVER SYSTEM—SUSQUEHANNA RIVER (NORTH BRANCH), EAST BLOOMSBURG, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	2.5	3.0	3.0	7.0	9.0	10.0	2.0	0.5	5.0	1.0	1.0	6.0
2.....	2.5	3.0	3.0	6.0	8.5	9.5	2.0	0.5	4.5	1.0	1.0	4.0
3.....	2.5	3.0	3.0	6.0	8.0	9.5	2.0	0.5	4.5	1.5	1.0	3.5
4.....	2.5	3.0	3.0	8.0	7.0	9.0	2.0	0.5	4.0	2.0	0.5	3.0
5.....	2.5	3.0	3.0	8.0	6.5	9.0	2.0	0.5	3.5	2.0	0.5	2.5
6.....	2.5	3.0	3.0	8.0	6.0	8.0	2.0	0.5	3.0	2.0	0.5	2.0
7.....	2.5	3.0	3.0	11.0	5.0	7.5	3.0	0.5	3.0	2.0	0.5	2.0
8.....	2.5	3.0	3.0	13.0	4.0	7.0	3.0	0.5	3.0	2.0	0.5	2.0
9.....	2.5	3.0	3.0	12.5	4.0	6.0	3.0	0.5	3.0	1.5	0.3	2.0
10.....	2.5	3.0	3.0	11.0	3.5	6.0	3.0	0.5	2.5	1.0	0.3	2.0
11.....	2.5	3.0	6.0	9.5	3.5	6.0	3.0	0.5	2.5	1.0	0.6	8.0
12.....	2.5	3.0	13.0	8.5	3.5	5.5	3.0	0.5	2.0	1.0	0.6	9.0
13.....	3.0	3.0	10.0	7.5	3.5	5.0	3.0	0.5	1.5	1.0	1.2	7.0
14.....	3.0	3.0	7.0	6.5	6.5	5.0	3.0	0.5	1.5	2.0	0.6	7.0
15.....	3.0	3.0	6.0	6.5	6.0	5.0	2.5	0.5	1.5	2.0	2.0	7.0
16.....	3.0	3.0	5.5	6.5	5.5	5.0	2.5	0.5	1.0	3.0	2.0	21.0
17.....	3.0	3.0	5.5	6.0	5.0	5.5	2.5	0.5	1.0	3.0	2.0	19.0
18.....	3.0	3.0	5.5	6.0	4.5	5.5	2.5	3.5	1.5	3.0	2.0	12.0
19.....	3.0	3.0	5.5	5.5	4.0	5.0	2.0	6.0	2.0	2.5	2.0	9.0
20.....	3.0	3.0	6.0	5.0	4.0	4.0	1.5	4.0	2.0	2.5	2.0	7.0
21.....	3.0	3.0	7.0	5.0	4.0	4.0	1.0	3.0	2.0	2.5	2.0	5.5
22.....	3.0	3.0	10.5	11.5	5.0	4.0	1.0	3.0	1.5	2.5	2.0	5.0
23.....	3.0	3.0	11.0	14.0	6.0	4.0	1.0	4.0	1.5	2.0	2.0	5.0
24.....	3.0	3.0	10.0	12.0	6.0	4.0	1.0	7.0	1.5	2.0	2.0	4.5
25.....	3.0	3.0	9.0	11.5	6.0	3.5	0.5	9.0	1.0	1.0	2.0	4.0
26.....	3.0	3.0	10.5	9.5	5.5	3.5	0.5	8.0	1.0	1.0	6.0	4.0
27.....	3.0	3.0	11.0	9.0	5.5	3.0	0.5	6.0	1.0	1.0	6.0	4.0
28.....	3.0	3.0	16.0	9.0	5.5	3.0	0.5	5.0	1.0	1.0	6.0	4.0
29.....	3.0	.....	14.0	9.0	5.5	2.5	0.5	5.0	1.0	1.0	6.0	4.0
30.....	3.0	.....	11.0	9.0	11.0	2.0	0.5	5.0	1.0	1.0	6.0	4.0
31.....	3.0	.....	9.0	.....	10.0	.....	0.5	5.0	.....	1.0	.....	4.0
Means.	2.8	3.0	7.1	8.6	5.7	5.6	1.8	2.6	2.2	1.7	2.0	5.9
<b>1902</b>												
1.....	4.0	3.5	21.0	7.0	3.5	3.0	7.0	7.0	2.0	7.0	6.0	3.0
2.....	4.0	3.5	26.0	7.0	3.5	3.0	8.0	7.0	2.0	8.0	8.0	3.0
3.....	3.5	3.5	26.0	7.0	3.5	3.0	7.0	7.0	2.0	8.0	9.0	3.0
4.....	3.5	3.5	23.0	6.5	3.0	2.5	6.5	7.0	2.0	8.0	8.0	3.0
5.....	3.5	3.5	17.0	6.5	3.0	2.5	6.5	6.0	2.0	5.0	6.0	3.0
6.....	3.5	3.5	12.0	6.5	3.0	2.0	7.0	5.0	2.0	5.0	4.0	3.0
7.....	3.5	3.5	9.5	6.0	3.0	2.5	7.5	4.0	1.5	5.0	3.0	3.0
8.....	3.5	3.5	9.0	6.0	3.0	3.0	11.5	4.0	1.5	5.0	3.0	3.0
9.....	3.5	3.5	9.0	6.0	3.0	3.0	8.5	4.0	1.5	5.0	3.0	3.0
10.....	3.5	3.5	9.0	10.0	3.0	3.0	8.0	4.0	1.5	5.0	3.0	3.0
11.....	3.5	3.5	9.0	11.0	3.0	3.0	8.0	4.0	1.5	5.0	3.0	3.0
12.....	3.5	3.5	10.0	9.0	3.0	3.0	7.0	3.5	1.5	5.0	3.0	3.0
13.....	3.5	3.5	12.0	8.0	3.0	3.0	5.5	3.5	1.5	5.0	3.0	3.0
14.....	3.5	3.5	15.0	7.0	3.0	3.0	5.0	3.5	1.5	5.0	3.0	3.0
15.....	3.5	3.5	13.0	6.0	3.0	3.0	4.0	3.5	1.5	5.0	3.0	3.0
16.....	3.5	3.5	12.0	6.0	3.0	3.0	3.5	3.5	1.5	5.0	3.0	3.0
17.....	3.5	3.5	13.0	5.5	2.5	3.0	3.5	3.0	1.0	5.0	3.0	7.0
18.....	3.5	3.5	13.0	5.0	2.5	3.0	3.5	3.0	1.0	5.0	3.0	8.5
19.....	3.5	3.5	12.0	5.0	2.5	3.0	4.0	3.0	1.0	5.0	3.0	9.0
20.....	3.5	3.5	11.0	5.0	2.5	3.0	4.0	3.0	1.0	5.0	3.0	8.0
21.....	3.5	3.5	8.5	5.0	2.5	3.0	4.0	3.0	1.0	5.0	3.0	7.0
22.....	5.5	3.5	7.0	5.0	2.5	3.0	11.0	3.0	1.0	5.0	3.0	12.0
23.....	5.5	3.5	7.0	4.5	2.0	3.0	10.5	3.0	1.0	3.5	3.0	13.0
24.....	4.5	3.5	6.5	4.0	2.0	3.0	10.0	2.5	1.0	3.5	3.0	13.0
25.....	3.5	3.5	6.5	4.0	2.0	3.0	9.0	2.5	1.0	3.0	3.0	11.0
26.....	3.5	3.5	6.0	4.0	2.0	3.0	10.0	2.5	3.0	3.0	3.0	9.0
27.....	3.5	3.0	6.0	4.0	2.0	3.0	9.5	2.5	5.0	3.0	3.0	8.5
28.....	3.5	9.0	6.0	4.0	2.0	3.0	9.0	2.5	6.0	3.0	3.0	8.0
29.....	3.5	.....	6.0	4.0	3.0	3.0	7.0	2.5	5.5	3.0	3.0	6.5
30.....	3.5	.....	6.0	3.5	3.0	3.0	7.0	2.5	7.0	3.0	3.0	6.0
31.....	3.5	.....	7.0	.....	3.0	.....	.....	2.0	.....	5.0	.....	5.0
Means.	3.7	3.9	11.4	5.9	2.8	2.9	7.1	3.8	2.1	4.9	3.8	5.8

## SUSQUEHANNA RIVER SYSTEM—SUSQUEHANNA RIVER (NORTH BRANCH), EAST BLOOMSBURG, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	5.0	11.0	16.0	7.0	3.0	0.5	.....	2.0	10.0	0.5	3.5	3.5
2.....	4.0	9.0	16.0	7.0	3.0	0.5	.....	2.0	8.0	0.0	3.5	3.0
3.....	3.0	9.0	12.0	7.0	2.5	0.5	.....	2.0	6.0	0.0	3.5	2.5
4.....	3.0	9.0	9.0	7.0	2.5	0.5	.....	2.0	5.5	0.0	3.5	2.5
5.....	5.0	12.0	8.0	7.0	2.0	0.5	.....	3.0	4.5	0.0	3.5	3.0
6.....	7.0	14.0	7.0	8.0	2.0	0.5	.....	3.5	4.5	0.0	3.5	3.0
7.....	6.0	10.0	6.0	8.0	2.0	0.5	.....	5.0	4.0	0.5	3.5	2.5
8.....	5.0	8.0	9.0	9.0	2.0	1.0	.....	5.0	4.0	1.0	3.5	2.5
9.....	5.0	7.0	10.0	10.0	2.0	1.0	.....	4.5	3.0	3.0	3.0	2.5
10.....	5.0	7.0	11.0	9.0	2.0	1.0	.....	4.0	3.0	11.0	3.0	2.5
11.....	5.0	7.0	13.0	8.0	2.0	1.0	.....	4.0	3.0	15.0	3.0	2.5
12.....	4.0	6.0	14.0	9.0	2.0	1.0	.....	3.0	2.5	16.0	3.0	2.5
13.....	Frozen.	6.0	14.0	7.0	1.5	2.0	.....	3.0	2.5	14.0	3.0	2.5
14.....	.....	7.0	14.0	7.5	1.0	4.0	.....	3.0	2.5	10.0	2.5	2.5
15.....	.....	8.0	12.0	10.0	1.0	6.0	.....	3.0	2.5	8.0	2.5	2.5
16.....	.....	7.0	10.5	10.0	1.0	5.0	.....	2.0	2.5	6.0	2.5	2.5
17.....	.....	6.0	9.0	9.0	1.0	4.5	.....	2.0	2.0	5.0	3.0	3.0
18.....	.....	6.0	8.0	7.5	1.0	4.5	.....	1.5	2.0	5.0	7.0	5.0
19.....	.....	6.0	8.0	6.0	1.0	4.5	.....	1.0	3.0	7.0	10.0	5.5
20.....	.....	5.0	8.0	5.5	1.0	4.5	.....	0.5	3.0	8.5	8.0	6.0
21.....	.....	4.5	7.0	5.0	1.0	4.5	.....	1.5	3.0	8.0	6.0	6.0
22.....	.....	Frozen.	7.0	5.0	1.0	5.0	.....	1.5	2.0	7.0	5.0	6.0
23.....	.....	.....	7.0	4.5	1.0	5.5	.....	2.0	1.5	5.5	4.0	6.0
24.....	.....	.....	17.0	4.5	1.0	5.5	.....	2.5	1.5	5.0	4.0	6.0
25.....	.....	.....	16.5	3.0	1.0	6.5	.....	2.5	1.5	4.5	4.0	5.5
26.....	.....	.....	13.0	3.0	1.0	6.5	.....	2.0	2.0	4.0	4.0	5.5
27.....	.....	10.0	12.0	3.0	0.5	6.5	.....	2.0	2.0	4.0	4.0	5.5
28.....	.....	14.0	11.0	3.0	0.5	6.5	.....	2.0	1.0	3.5	4.0	8.0
29.....	.....	.....	9.0	3.0	0.5	6.5	.....	4.0	1.0	3.5	3.5	7.0
30.....	.....	.....	8.0	3.0	0.5	6.0	.....	10.0	1.0	3.5	3.5	6.5
31.....	12.0	.....	7.0	.....	0.5	.....	.....	13.0	.....	3.5	.....	6.5
Means.....	.....	8.2	10.6	6.5	1.4	3.4	.....	2.1	3.2	5.2	4.0	4.2
<b>1904</b>												
1.....	6.0	20.0	18.0	8.0	9.0	5.0	3.0	2.5	2.0	2.5	2.0	2.5
2.....	6.0	20.0	18.0	10.0	8.5	4.5	3.0	2.5	2.0	2.5	2.5	2.5
3.....	6.0	20.0	18.0	9.0	7.5	4.0	3.0	3.0	2.0	2.5	2.5	2.5
4.....	6.0	20.0	19.0	8.0	6.5	4.0	3.0	2.0	2.0	2.5	2.0	2.5
5.....	6.0	20.0	21.0	8.0	6.0	4.0	3.0	2.0	2.0	2.5	2.0	2.5
6.....	6.0	20.0	22.0	8.0	5.5	4.0	3.0	3.0	2.0	2.5	2.0	2.5
7.....	6.0	20.0	22.5	8.0	5.5	5.0	3.0	2.5	2.0	2.0	2.0	2.5
8.....	6.0	26.0	24.5	8.0	5.5	5.0	3.0	2.0	2.0	2.0	2.0	2.5
9.....	6.0	29.5	29.5	8.0	5.5	5.5	3.0	2.0	2.0	2.0	2.0	2.5
10.....	6.0	29.5	31.5	8.0	5.0	6.0	3.0	2.0	1.5	2.0	2.0	2.5
11.....	6.0	26.5	11.0	11.0	4.0	7.0	3.0	2.0	1.0	2.0	2.5	3.0
12.....	6.0	25.0	9.5	10.0	4.0	8.0	3.0	2.0	1.0	2.0	2.5	3.0
13.....	6.0	25.0	8.0	8.0	4.0	7.0	3.0	2.0	0.5	2.0	2.5	3.0
14.....	6.0	21.0	7.0	8.0	3.0	6.5	3.0	2.0	1.0	4.5	2.5	3.0
15.....	6.0	21.0	6.0	7.0	3.0	6.0	3.0	2.0	1.5	4.5	3.0	3.0
16.....	6.0	20.0	5.5	6.0	4.0	5.0	3.0	1.5	2.5	4.0	3.0	3.0
17.....	6.0	20.0	5.5	5.5	5.0	5.0	2.5	1.5	2.0	4.0	3.0	3.0
18.....	6.0	20.0	5.5	5.0	5.0	5.0	2.0	1.5	2.0	4.0	3.0	3.0
19.....	6.0	19.0	5.0	5.0	5.0	4.0	2.0	1.5	2.0	4.0	3.0	3.0
20.....	6.0	18.0	5.0	5.0	7.0	4.0	2.0	1.5	2.0	4.5	3.0	3.0
21.....	6.0	16.0	5.5	5.0	8.0	4.0	2.0	1.5	1.5	5.0	3.0	3.0
22.....	5.0	16.0	6.0	5.0	7.0	4.0	2.0	1.5	0.5	5.5	3.0	3.0
23.....	6.0	17.0	6.5	5.0	5.5	4.0	2.0	1.5	0.5	6.0	3.0	3.0
24.....	31.0	18.0	24.0	5.0	5.5	3.0	2.0	2.5	0.5	6.5	3.0	3.0
25.....	31.0	18.0	13.0	5.0	5.0	3.0	2.0	3.0	0.5	7.0	3.0	3.0
26.....	31.0	18.0	13.0	5.0	5.0	3.0	2.0	2.0	1.5	6.0	2.5	3.0
27.....	27.0	18.0	18.0	6.0	5.0	3.0	2.0	2.0	2.5	6.0	2.5	3.0
28.....	24.0	18.0	17.0	10.0	5.0	3.0	2.0	2.0	2.5	5.5	2.5	4.0
29.....	22.0	18.0	13.0	10.0	5.0	3.0	2.0	2.0	2.5	4.0	2.5	10.0
30.....	20.0	.....	11.0	9.5	5.0	3.0	2.0	2.0	2.5	4.0	2.5	9.0
31.....	20.0	.....	8.0	.....	5.0	.....	2.5	2.0	.....	4.0	.....	8.0
Means.....	11.1	20.6	13.8	7.3	5.5	4.6	2.5	2.0	1.7	3.8	2.6	3.5

## SUSQUEHANNA RIVER SYSTEM—SINNEMAHONING CREEK, DRIFTWOOD, PA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	2.6	2.7	3.2	2.1	1.8	2.8	1.3	1.6	1.7	1.3	1.5	3.9
2.....	2.4	2.7	4.1	2.1	1.7	2.9	1.3	1.5	1.7	1.4	1.5	3.6
3.....	2.3	2.7	3.8	2.1	1.7	2.9	1.2	1.4	1.7	1.4	1.5	3.4
4.....	2.2	2.7	3.6	2.1	1.7	2.6	1.2	1.4	1.7	1.4	1.5	3.4
5.....	2.1	2.8	3.5	2.1	1.7	2.1	1.2	1.4	1.6	1.4	1.5	3.8
6.....	2.3	2.9	3.5	2.1	1.6	2.1	1.2	1.3	1.6	1.3	1.6	3.9
7.....	2.4	2.9	3.5	2.9	1.6	2.1	1.2	1.3	1.6	1.3	1.7	3.7
8.....	2.5	3.2	3.8	3.1	1.6	2.1	1.2	1.3	1.6	1.5	1.9	3.5
9.....	2.8	3.6	3.4	3.2	1.6	2.1	1.2	1.3	1.6	1.6	1.8	3.4
10.....	3.0	3.4	3.1	2.8	1.6	1.9	1.2	1.3	1.6	1.6	1.8	3.2
11.....	3.2	3.2	2.8	2.8	1.6	1.9	1.2	1.3	1.6	1.6	1.8	2.8
12.....	3.3	2.8	2.6	2.8	1.6	1.9	2.4	1.3	1.6	1.6	1.8	2.8
13.....	3.3	3.1	2.3	2.6	1.7	1.9	2.5	1.3	1.6	1.6	1.8	2.7
14.....	3.4	3.2	2.1	2.4	1.7	1.9	2.3	1.3	1.6	1.9	1.8	2.5
15.....	3.5	2.8	2.1	2.1	1.6	2.1	2.0	1.3	1.6	1.8	1.7	2.5
16.....	3.9	2.3	2.1	2.1	1.6	2.1	1.8	1.3	1.6	1.8	1.7	2.4
17.....	4.2	2.1	2.1	2.4	1.5	1.8	1.8	1.3	1.6	1.7	1.7	2.3
18.....	5.1	2.1	2.1	3.2	1.5	1.6	1.7	1.3	1.6	1.7	1.7	2.3
19.....	5.8	2.1	2.9	3.0	2.1	1.6	1.7	1.3	1.6	1.6	1.7	2.3
20.....	4.7	2.1	3.5	2.8	2.2	1.6	1.6	1.5	1.6	1.6	1.8	2.3
21.....	4.2	2.1	3.1	2.7	2.1	1.6	1.6	1.8	1.6	1.5	1.9	2.3
22.....	3.8	3.6	2.7	2.7	1.8	1.6	1.5	2.1	1.6	1.4	2.1	2.2
23.....	3.5	4.3	2.8	2.9	1.8	1.6	1.5	2.2	1.6	1.4	2.2	2.1
24.....	3.3	4.3	2.9	2.6	1.8	1.6	1.5	2.2	1.4	2.1	2.3	2.1
25.....	3.1	4.1	2.7	2.3	1.8	1.6	1.5	1.9	1.4	1.9	3.5	2.1
26.....	3.1	3.8	2.4	2.1	1.7	1.5	1.8	1.8	1.3	1.7	8.9	2.1
27.....	2.9	3.5	2.3	2.1	1.7	1.5	1.7	1.8	1.3	1.7	7.2	2.1
28.....	2.9	3.2	2.1	2.1	4.2	1.4	1.6	1.8	1.3	1.6	5.2	2.1
29.....	2.8	.....	2.1	1.8	3.8	1.3	1.6	1.7	1.3	1.5	4.8	2.1
30.....	2.8	.....	2.1	1.8	3.2	1.3	1.6	1.7	1.3	1.5	3.9	2.1
31.....	2.7	.....	2.1	.....	2.8	.....	1.6	1.7	.....	1.5	.....	2.1
Means.	3.2	3.0	2.8	2.5	1.9	1.9	1.6	1.5	1.6	1.6	2.5	2.7
<b>1901</b>												
1.....	2.1	2.2	1.9	3.1	2.6	4.7	2.6	2.5	2.7	2.1	1.7	2.1
2.....	2.1	2.2	1.9	2.8	2.6	4.3	2.6	2.4	2.9	2.1	1.7	1.9
3.....	2.1	2.2	1.9	2.8	2.7	4.1	2.8	2.3	3.1	2.1	1.7	1.7
4.....	2.1	2.2	1.9	2.8	2.6	3.9	2.9	2.1	2.9	2.1	1.7	1.6
5.....	2.1	2.2	1.9	2.9	2.6	3.6	2.9	1.9	2.7	1.9	1.7	1.4
6.....	2.1	2.1	1.9	3.4	2.6	3.2	2.8	1.9	2.5	1.9	1.7	1.2
7.....	1.9	2.1	1.9	3.7	2.6	2.8	2.7	1.9	2.3	1.9	1.7	1.2
8.....	1.9	2.1	1.9	3.9	2.6	2.7	2.6	1.9	2.3	1.8	1.7	1.2
9.....	1.9	2.1	2.4	3.7	2.7	2.7	2.6	1.8	2.3	1.8	1.7	1.2
10.....	2.1	2.1	3.6	3.5	2.7	2.6	2.6	1.8	2.2	1.8	1.7	3.6
11.....	2.8	2.1	4.5	3.3	2.7	2.5	2.6	1.7	2.2	1.8	1.7	3.4
12.....	3.1	2.1	3.8	3.2	2.7	2.3	2.5	1.7	2.2	1.8	1.7	3.2
13.....	3.1	2.1	3.6	3.2	2.7	2.3	2.5	1.7	2.2	1.8	1.7	3.7
14.....	3.1	2.1	3.4	3.1	2.6	2.3	2.4	1.7	2.2	1.9	1.7	2.9
15.....	2.8	2.1	2.9	2.8	2.4	2.3	2.3	1.7	2.2	1.9	1.7	7.3
16.....	2.8	2.1	2.7	2.6	2.3	2.3	2.2	3.2	2.5	1.9	1.7	5.3
17.....	2.6	2.1	2.6	2.3	2.3	2.3	2.1	2.9	2.5	1.9	1.7	4.1
18.....	2.6	2.1	2.6	2.3	2.3	2.2	2.1	3.1	2.4	1.9	1.7	3.9
19.....	2.5	2.1	2.6	2.3	2.3	2.2	2.1	3.8	2.4	2.1	1.7	3.6
20.....	2.5	1.9	3.4	3.2	2.3	2.2	2.1	3.9	2.4	1.9	1.7	3.5
21.....	2.5	1.9	4.3	5.6	2.3	2.2	2.1	3.7	2.4	1.8	1.7	3.4
22.....	2.4	1.9	3.7	5.3	2.3	2.2	2.1	3.4	2.4	1.8	1.7	3.3
23.....	2.4	1.9	3.5	4.7	2.3	2.9	2.1	3.2	2.4	1.8	1.7	3.1
24.....	2.4	1.9	3.4	3.8	2.3	2.8	2.1	4.9	2.4	1.8	2.1	2.9
25.....	2.4	1.9	3.7	3.6	2.5	2.6	2.1	4.6	2.3	1.8	3.7	2.9
26.....	2.4	1.9	3.9	3.4	2.9	2.5	2.2	4.3	2.2	1.7	3.9	2.8
27.....	2.4	1.9	4.3	3.2	3.8	2.5	2.7	3.7	2.1	1.7	3.8	2.8
28.....	2.4	1.9	4.2	2.9	4.2	2.5	2.7	3.6	2.1	1.7	3.8	2.8
29.....	2.2	.....	4.1	2.7	5.4	2.3	2.7	3.3	2.1	1.7	3.6	2.8
30.....	2.2	.....	3.8	2.6	4.7	2.6	2.7	2.9	2.1	1.7	3.2	2.8
31.....	2.2	.....	3.1	.....	3.9	.....	2.5	2.8	.....	1.7	.....	2.6
Means.	2.4	2.1	3.1	3.3	2.8	2.8	2.5	2.8	2.4	1.9	2.1	2.9

## 679

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	2.6	2.5	4.3	3.4	2.2	1.4	3.6	4.8	1.4	1.4	1.4	1.5
2.....	2.4	2.5	6.0	3.6	1.9	1.4	3.5	4.3	1.4	1.4	1.4	1.5
3.....	2.3	2.5	4.0	3.7	2.1	1.3	3.7	3.8	1.4	1.4	1.4	1.5
4.....	2.3	2.5	4.3	3.4	2.1	1.3	5.5	3.3	1.4	1.4	1.4	1.6
5.....	2.2	2.5	4.1	3.1	2.3	1.2	4.1	3.1	1.4	1.6	1.4	1.6
6.....	2.2	2.5	3.8	3.1	2.5	1.2	3.9	2.9	1.4	1.6	1.3	1.6
7.....	2.2	2.5	3.5	3.1	2.6	1.2	4.2	2.9	1.3	1.5	1.3	1.6
8.....	2.2	2.5	3.1	4.2	2.5	1.2	4.1	2.9	1.2	1.4	1.3	1.5
9.....	2.2	2.5	3.1	6.0	2.3	1.2	4.1	2.7	1.2	1.3	1.3	1.4
10.....	2.2	2.5	2.8	5.6	2.2	1.2	4.9	2.6	1.2	1.3	1.2	1.4
11.....	2.2	2.5	2.7	3.2	2.1	1.2	4.3	2.6	1.2	1.3	1.2	1.4
12.....	2.2	2.5	2.6	3.1	2.1	1.2	4.1	2.5	1.2	1.3	1.2	1.5
13.....	2.2	2.5	3.9	2.9	2.1	1.2	3.8	2.5	1.2	1.7	1.2	1.6
14.....	2.1	2.5	3.6	2.7	2.1	1.2	3.5	2.4	1.2	1.7	1.2	1.6
15.....	2.1	2.5	3.3	2.6	2.1	1.2	3.2	2.3	1.2	1.8	1.2	1.6
16.....	2.1	2.5	3.1	2.5	2.1	1.6	2.9	2.2	1.2	1.7	1.2	1.6
17.....	2.1	2.5	4.5	2.4	2.1	1.6	3.1	2.1	1.2	1.5	1.2	1.6
18.....	2.1	2.5	3.8	2.4	1.9	1.4	3.2	1.9	1.2	1.5	1.3	1.6
19.....	2.1	2.5	3.7	2.4	1.8	1.4	3.4	1.8	1.2	1.5	1.3	1.6
20.....	2.1	2.5	3.5	2.4	1.6	1.4	4.9	1.8	1.2	1.5	1.2	1.9
21.....	2.4	2.5	3.1	2.3	1.6	1.4	5.2	1.8	1.2	1.4	1.2	2.9
22.....	2.4	2.5	2.9	2.2	1.6	1.4	4.7	1.8	1.2	1.3	1.1	4.1
23.....	2.5	2.5	2.9	2.2	1.6	1.4	4.2	1.8	1.2	1.3	1.1	4.1
24.....	2.1	2.5	2.9	2.2	1.6	1.4	3.9	1.7	1.6	1.3	1.1	4.3
25.....	2.1	2.7	2.8	2.2	1.6	1.4	5.1	1.7	1.9	1.3	1.2	4.6
26.....	2.4	2.9	2.7	2.2	1.6	1.6	4.4	1.6	2.1	1.3	1.3	4.9
27.....	2.8	3.3	2.6	2.2	1.6	1.6	3.5	1.5	1.9	1.3	1.8	4.9
28.....	2.8	4.3	2.6	2.2	1.6	1.5	3.3	1.5	1.7	1.3	1.8	4.3
29.....	2.8		2.6	2.2	1.6	1.6	3.3	1.5	1.6	1.3	1.7	4.1
30.....	2.7		3.1	2.2	1.4	3.6	4.8	1.5	1.4	1.3	1.5	3.6
31.....	2.5		3.4		1.4		4.8	1.4		1.3		3.2
<b>Means.</b>	<b>2.3</b>	<b>2.6</b>	<b>3.4</b>	<b>2.9</b>	<b>1.9</b>	<b>1.4</b>	<b>4.0</b>	<b>2.4</b>	<b>1.4</b>	<b>1.4</b>	<b>1.3</b>	<b>2.5</b>
<b>1903</b>												
1.....	3.2	3.8										
2.....	3.1	3.3										
3.....	3.1	4.9										
4.....	3.1	6.2										
5.....	Frozen.	5.1										
6.....		4.8										

SUSQUEHANNA RIVER SYSTEM—SINNEMAHOING CREEK, SINNEMAHOING, PA.<sup>a</sup>

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	-3.0	3.0	3.0	3.5	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0
2.....	-3.0	-3.0	3.5	3.5	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0
3.....	-3.0	-3.0	4.5	3.5	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0
4.....	-3.0	-3.0	4.5	3.5	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0
5.....	-3.0	-3.0	4.0	4.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0
6.....	-3.0	-3.0	4.0	4.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0
7.....	-3.0	-3.0	3.5	4.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0
8.....	-3.0	3.0	3.5	4.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0
9.....	-3.0	3.0	3.0	4.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0
10.....	-3.0	3.0	3.0	3.5	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0
11.....	-3.0	3.0	3.0	3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0
12.....	-3.0	3.0	-3.0	3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0
13.....	-3.0	3.0	-3.0	3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0
14.....	-3.0	3.0	-3.0	3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0
15.....	-3.0	3.0	-3.0	3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0
16.....	-3.0	3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	3.5	-3.0	-3.0
17.....	-3.0	3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	3.5	-3.0	-3.0
18.....	-3.0	3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	3.5	-3.0	-3.0
19.....	3.5	3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0
20.....	5.0	3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0
21.....	5.0	3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0
22.....	4.5	3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0
23.....	4.0	3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	3.0	-3.0
24.....	4.0	3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	4.5	-3.0
25.....	3.5	3.0	-3.0	-3.0	3.5	-3.0	-3.0	-3.0	-3.0	-3.0	10.5	-3.0
26.....	3.5	3.5	-3.0	-3.0	4.0	-3.0	-3.0	-3.0	-3.0	-3.0	11.8	-3.0
27.....	3.0	3.5	-3.0	-3.0	4.5	-3.0	-3.0	-3.0	-3.0	-3.0	8.0	-3.0
28.....	3.0	4.0	-3.0	-3.0	4.5	-3.0	-3.0	-3.0	-3.0	-3.0	4.0	-3.0
29.....	3.0		-3.0	-3.0	4.0	-3.0	-3.0	-3.0	-3.0	-3.0	4.0	-3.0
30.....	3.0		-3.0	-3.0	3.5	-3.0	-3.0	-3.0	-3.0	-3.0	3.5	-3.0
31.....	3.0		-3.0		3.0		-3.0	-3.0		-3.0		-3.0
Means.	-0.2	1.6	-0.7	0.2	-1.5	-3.0	-3.0	-3.0	-3.0	-2.4	-0.6	-3.0
1901												
1.....	-3.0	-3.0	-3.0									
2.....	-3.0	-3.0	-3.0									
3.....	-3.0	-3.0	-3.0									
4.....	-3.0	-3.0	-3.0									
5.....	-3.0	-3.0	-3.0									
6.....	-3.0	-3.0	-3.0									
7.....	-3.0	-3.0	-3.0									
8.....	-3.0	-3.0	-3.0									
9.....	-3.0	-3.0	-3.0									
10.....	-3.0	-3.0	-3.0									
11.....	4.5	-3.0	5.0									
12.....	4.0	-3.0	5.0									
13.....	3.5	-3.0	4.5									
14.....	3.0	-3.0	4.0									
15.....	-3.0	-3.0	4.0									
16.....	-3.0	-3.0	3.5									
17.....	-3.0	-3.0	3.5									
18.....	-3.0	-3.0	3.0									
19.....	-3.0	-3.0	3.0									
20.....	-3.0	-3.0	3.0									
21.....	-3.0	-3.0	3.0									
22.....	-3.0	-3.0	3.0									
23.....	-3.0	-3.0	3.0									
24.....	-3.0	-3.0	3.0									
25.....	-3.0	-3.0	3.0									
26.....	-3.0	-3.0	3.0									
27.....	-3.0	-3.0	3.5									
28.....	-3.0	-3.0	3.5									
29.....	-3.0		3.5									
30.....	-3.0		3.5									
31.....	-3.0		3.5									
Means.	-2.1	-3.0	1.4									

<sup>a</sup>To reduce to zero of gage in use on and after August 1, 1904, add 3 feet.



## SUSQUEHANNA RIVER SYSTEM—PINE CREEK, CEDAR RUN, PA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.	-0.7	-0.7	-0.1	-1.0	-1.2							
2.	-0.7	-0.7	-0.2	-0.7	-1.4							
3.	-0.7	-0.7	-0.3	-0.6	-1.5							
4.	-0.7	-0.7	-1.1	-0.6	-1.5							
5.	-0.7	-0.7	-1.4	-0.8	-1.6							
6.	-0.7	-0.7	-1.5	-0.3	-1.7							
7.	-0.7	-0.7	-1.2	0.2	-1.7							
8.	-0.7	-0.7	-1.2	0.1	-1.7							
9.	-0.7	1.4	-1.2	0.1	-1.6							
10.	-0.7	0.8	-0.8	0.0	-1.6							
11.	-0.7	-0.1	-0.6	-0.3	-1.6							
12.	-0.7	-1.8	-1.0	-0.6	-1.6							
13.	-0.7	0.2	-1.2	-0.7	-1.6							
14.	-0.7	-0.2	-1.5	-0.7	-1.6							
15.	-0.7	-0.4	-1.6	-0.7	-1.6							
16.	-0.7	-0.8	-1.8	-0.7	-1.8							
17.	-0.7	-1.0	-1.8	0.1	-1.8							
18.	-0.7	-1.2	-1.8	0.7	-2.0							
19.	-0.7	-1.4	-1.4	0.6	-2.0							
20.	0.4	-1.4	-1.0	0.2	-2.0							
21.	0.4	-1.4	-0.5	-0.2	-2.0							
22.	0.5	0.9	-1.2	-0.3	-2.1							
23.	0.1	0.1	-0.9	-0.4	-2.2							
24.	-0.4	-0.4	-0.7	-0.5	-2.2							
25.	-0.6	-0.6	-0.5	-0.7	-1.8							
26.	-0.7	-1.3	-0.7	-0.7	-1.8							
27.	-0.7	-1.4	-0.8	-0.7	-1.6							
28.	-0.7	-1.4	-0.8	-0.8	-1.6							
29.	-0.7		-1.0	-1.0	-1.5							
30.	-0.7		-1.1	-1.1	-1.5							
31.	-0.7		-1.3		-1.5							
Means.	-0.5	-0.6	-1.1	-0.4	-1.7							

## SUSQUEHANNA RIVER SYSTEM—LYCOMING CREEK, TROUT RUN, PA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.	Frozen.	Frozen.	Frozen.		1.0	0.5					0.4	1.2
2.				0.9	1.0	0.5	0.2				0.4	
3.			2.0	0.9	0.9		0.2				0.4	1.0
4.				0.9	0.9	0.5	0.2					1.0
5.			1.6	1.0	0.8	0.5	0.2				0.4	2.0
6.			1.4	1.1		0.5	0.6				0.4	1.7
7.			1.4	1.5	0.8	0.4	0.3				0.4	1.5
8.			1.3		0.8	0.4			0.2		0.4	1.4
9.			1.0	1.3	0.8	0.5	0.3			0.5	0.4	
10.			1.0	1.2	0.8		0.3			0.3	0.4	1.0
11.				1.1	0.7	0.5	0.1			0.3		1.0
12.		1.0	1.0	1.0	0.7	0.4	0.1			0.2	0.4	1.0
13.		2.0	1.0	1.1		0.4	0.1			0.0	0.2	1.0
14.		2.0	Frozen.	1.1	0.7	0.4	0.1				0.2	1.0
15.		1.5			0.7	0.4			0.3		0.2	Frozen.
16.		1.4		1.1	0.7	0.4	0.0		0.2	Frozen.		
17.		1.2		1.4	0.7				0.1			
18.	0.7			1.9	0.7	0.3			0.1			
19.	0.9	Frozen.	Frozen.	1.8	0.7	0.3			0.1		0.4	
20.	1.4		0.9	1.5		0.3			0.1		0.3	
21.			0.9	1.5	0.7	0.3					0.3	
22.	1.7	2.9	0.9		0.7	0.3					0.4	0.8
23.	1.4	2.3	0.9	1.6	0.7	0.6					0.4	
24.	1.4	1.3	0.9	1.5	0.7					0.7		0.8
25.	1.4			1.4	0.7	0.3				0.6		
26.	1.4	Frozen.	0.9	1.3	0.8	0.2				0.6	3.8	0.8
27.	Frozen.		0.9	1.2		0.2				0.5	2.7	0.8
28.			0.9	1.2	0.5	0.2					1.8	0.8
29.			0.9		0.3	0.2				0.4	1.5	0.8
30.			0.9	1.0	0.3	0.2				0.4	1.3	
31.			0.9		0.3					0.5		0.8
Means.			1.1	1.2	0.7	0.4				0.3	0.7	1.1

## SUSQUEHANNA RIVER SYSTEM—LYCOMING CREEK, TROUT RUN, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	0.8	Frozen.	Frozen.	1.2	1.2	1.7	1.0	0.9		1.0	0.6	
2.....	Frozen.			1.2	1.2		0.9	0.8	1.1	1.0	0.6	1.2
3.....				1.2	1.8	1.8	0.9	0.8	1.8	1.0		1.1
4.....				1.4	1.5	1.5			1.4	0.9	0.6	1.0
5.....				1.4		1.4	0.9	0.8	1.4	0.9	0.6	Frozen.
6.....				1.5	1.4	1.3	0.9	0.6	1.0		0.6	
7.....					1.2	1.3	0.9	1.3	1.0	0.9	0.6	
8.....				2.3	1.2	1.3	0.8	0.9		0.9	0.6	
9.....				1.9	1.1		0.7	0.9	1.0	0.9	0.6	
10.....				1.6	1.2	1.2	0.7	0.8	0.9	0.9		2.8
11.....			3.9	1.5	1.2	1.2	0.7		0.8	0.9	0.6	1.5
12.....	0.8		1.7	1.4		1.1	0.7	0.8	0.8	0.9	0.6	1.4
13.....			1.5	1.4	1.2	1.1	0.7	0.8	0.8		0.6	1.3
14.....	0.8		1.2		1.2	1.1		0.7	0.8	0.9	0.6	1.3
15.....	0.8		1.2	1.3	1.1	1.1	0.7	0.7		0.9	0.6	
16.....	0.7		1.1	1.3	1.1		0.6	0.9	1.0	0.9	0.6	
17.....	0.7			1.3	1.3	1.1	0.6	0.9	1.0	0.9		
18.....	0.7		1.0	1.3	1.3	1.1	0.9		1.0	0.9	0.6	
19.....	Frozen.		1.2	1.3		1.1	0.8	1.1	1.0	0.9	0.6	
20.....			1.2	1.4	1.2	0.9	0.8	0.9	0.9		0.6	
21.....			2.0	4.0	1.2	1.3		0.9	0.8	0.9	0.6	
22.....			1.6	3.6	1.0	1.1	0.6	1.1		0.9	0.6	
23.....			1.6	2.0	2.8		0.6	1.0	0.8	0.8	0.6	
24.....				2.2	2.0	1.1	0.6	2.1	0.7	0.8	1.1	
25.....			1.6	1.9	1.7	1.1	0.6		0.7	0.8	1.9	
26.....			1.9	1.7		1.1	0.6	1.3	0.6	0.8	1.5	
27.....			3.2	1.6	1.6	1.0	0.6	1.2	0.6		1.3	
28.....			2.2		1.6	1.0		1.2	0.6	0.8		
29.....			1.8	1.4	2.5	1.2	1.1	0.9		0.6	1.2	
30.....			1.5	1.3	2.4		1.1	0.9	1.2	0.6	1.2	
31.....					2.0		0.9	0.9		0.6		
Means.			1.7	1.7	1.5	1.2	0.8	1.0	0.9	0.9	0.8	
<b>1902</b>												
1.....		0.0	4.8	1.0	0.0		0.6	0.0	0.0	2.0	0.0	0.0
2.....				0.8	0.0	0.0	0.0	0.0	0.0	1.0		0.0
3.....		Frozen.	2.5	0.6	0.0	0.0	0.0		0.0	0.5	0.0	0.0
4.....			0.9	0.5		0.0		0.6	0.0	0.5	0.0	0.0
5.....			0.9	0.4	0.0	0.0	0.0	0.6	0.0		0.0	0.0
6.....			0.8		0.0	0.0		0.7	0.0	0.5	0.0	0.0
7.....			0.6	0.6	0.0	0.0	1.3	0.0		0.2	0.0	0.0
8.....			0.2	0.3	0.0		0.7	0.0	0.0	0.0	0.0	0.0
9.....				2.4	0.0	0.0	0.3	0.0	0.0	0.0		0.0
10.....			0.5	2.4	0.0	0.0	0.3		0.0	0.0	0.0	Frozen.
11.....			0.8	1.5		0.0	0.0	0.0	0.0	0.0	0.0	
12.....			1.2	1.1	0.0	0.0	0.0	0.0	0.0		0.0	
13.....			1.8		0.0	0.0		0.0	0.0		0.0	
14.....			1.5	0.6	0.0	0.0	0.0	0.0		0.0	0.0	
15.....			1.0	0.4	0.0		0.0	0.0	0.0	0.0	0.0	
16.....			(a)	0.3	0.0	0.0	0.0	0.0	0.0	0.0		
17.....			4.2	0.1	0.0	0.0			0.0	0.0	0.0	0.6
18.....			2.0	0.1		0.0	0.0	0.0	0.0	0.0	0.0	0.6
19.....			1.8	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0
20.....			1.4		0.0	0.0		0.0	0.0	0.0	0.0	0.0
21.....			1.2	0.0	0.0	0.0	0.8	0.0		0.0	0.0	
22.....	2.4		1.0	0.0	0.0		0.6	0.0	0.0	0.0	0.0	2.0
23.....	1.0			0.0	0.0	0.0	0.4	0.0	0.0	0.0		1.0
24.....	0.2		1.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.9
25.....	0.0		0.5	0.0		0.0	b 3.9	0.0	0.0	0.0	0.0	0.6
26.....			0.5	0.0	0.0	0.0	2.0	0.0	0.0		0.0	0.6
27.....	0.0	0.4	0.4		0.0	0.0		0.0	0.6	0.0	0.0	0.6
28.....	0.0	1.5	0.4	0.0	0.0	0.0	0.9	0.0		0.9	0.0	
29.....	0.0		1.3	0.0	0.0		0.0	0.0	0.9	0.3	0.0	0.6
30.....	0.0			0.0	0.0	1.1	0.0	0.0	0.3	0.0		0.6
31.....	0.0		1.0		0.0		0.0			0.0		0.6
Means.			1.3	0.5	0.0	0.0	0.5	0.1	0.1	0.2	0.0	0.4

a 6.0 at 12 midnight.

b 5.0 at 4 a. m.

## SUSQUEHANNA RIVER SYSTEM—LYCOMING CREEK, TROUT RUN, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1				0.2	0.0	0.0	0.0	0.0	0.0	0.0		0.0
2	0.4	0.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.4	0.6	0.8	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
4		1.9	0.4	0.0	0.0	0.0	1.4	0.0	0.0		0.0	0.0
5	0.4	1.8	0.4		0.0	0.0		0.0	0.0	0.0	0.0	0.0
6	0.4	1.0	0.6	0.0	0.0	0.0	0.5	0.0		0.0	0.0	
7	0.3	0.7	0.6	0.0	0.0		0.0	0.6	0.0	0.0	0.0	0.0
8	0.3			0.0	0.0	0.0	0.0	0.0	0.0	1.0		0.0
9	0.1	0.2	1.9	0.4	0.0	0.0	0.0		0.0	2.0	0.0	0.0
10	0.1	0.2	1.5	0.4		0.0	0.0	0.0	0.0	1.5	0.0	0.0
11		0.2	2.5	0.2	0.0	0.0	0.0	0.0	0.0		0.0	0.0
12	0.0	0.6	1.9		0.0	0.0		0.0	0.0	0.8	0.0	0.0
13	Frozen.	0.5	1.4	0.3	0.0	0.0	0.0	0.0		0.5	0.0	0.0
14		0.5	1.0	0.3	0.0		0.0	0.0	0.0	0.0	0.0	0.0
15				2.3	0.0	0.0	0.0	0.0	0.0	0.0		Frozen.
16		0.3	0.9	2.2	0.0	0.0	0.0		0.0	0.0	0.0	
17		0.3	0.5	1.5		0.0	0.0	0.0	0.0	0.0	2.4	
18		0.3	0.5	0.8	0.0	0.0	0.0	0.0	0.0		1.5	
19		Frozen.	0.4		0.0	0.0		0.0	0.0	0.0	1.0	
20			0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.6	
21			0.2	0.1	0.0		0.0	0.0	0.0	0.0	0.0	
22				0.0	0.0		0.0	0.0	0.0	0.0		
23			2.0	0.0	0.0				0.0	0.0	0.0	
24			2.5	0.0			0.0	0.0	0.0	0.0	0.0	
25		0.0	1.5	0.0	0.0	2.7	0.0	0.0	0.0		0.0	
26		0.0	0.9		0.0	2.1		0.0	0.0	0.0	0.0	
27		0.0	0.4	0.0	0.0	1.5	0.0	0.0		0.0	0.0	
28		3.0	0.3	0.0	0.0		0.0	0.0	0.0	0.0	0.0	
29	0.0			0.0	0.0	0.0	0.0	1.0	0.0	0.0		
30	1.5		0.0	0.0	0.0	0.0	0.6		0.0	0.0	0.0	
31	1.0		0.4				0.0	0.0		0.0		
Means.		0.7	1.0	0.3	0.0	0.3	0.1	0.1	0.0	0.2	0.2	
<b>1904</b>												
1	Frozen.	Frozen.	Frozen.	1.0		0.0	0.0	0.0	0.0	0.0	0.0	
2				1.7	0.4	0.0	0.0	0.0	0.0		0.0	
3			1.3		0.1	0.0		0.0	0.0	0.0	0.0	
4			1.3	0.5	0.1	0.0	0.0	0.0		0.0	0.0	
5			1.0	0.5	0.0	6.0	0.0	0.0	0.0	0.0	0.0	
6			1.0	0.5	0.0	2.0	0.0	0.0	0.0	0.0		
7			1.0	0.5	0.0	2.0	0.0		0.0	0.0	0.0	
8			2.6	0.5		1.5	0.0	0.0	0.0	0.0	0.0	
9			1.5	1.2	0.0	0.0	0.0	0.0	0.0		0.0	
10			1.0		0.0	0.0		0.0	0.0	0.0	0.0	
11			0.5	1.3	0.0	0.0	0.0	0.0		0.0	0.0	
12			0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13				0.9	0.0	0.0	0.0	0.0	0.0	0.0		
14			0.0	0.7	0.0	0.0	0.0		0.0	0.0	0.0	
15			0.0	0.5		0.0	0.0	0.0	0.0	0.0	0.0	
16			0.0	0.1	0.1	0.0	0.0	0.0	0.0		0.0	
17			0.0		0.0	0.0		0.0	0.0	0.0	0.0	
18			0.0	0.0	3.0	0.0	0.0	0.0		0.0	0.0	
19			0.0	0.0	1.0		0.0	0.0	0.0	0.0	0.0	
20				0.0	0.5	0.0	0.0	0.0	0.0	0.0		
21			0.0	0.0	0.1	0.0	0.0		0.0	0.0	0.0	
22			0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
23	2.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
24	1.0		0.8		0.2	0.0		0.0	0.0	0.0	0.0	
25			1.1	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
26			2.4	0.0	0.0		0.0	0.0	0.0	0.0	0.0	
27				0.0	0.0	0.0	0.0	0.0	0.0	0.0		
28			2.0	0.5	0.0	0.0	0.0		0.0	0.0	0.0	
29			0.5	0.9		0.0	0.0	0.0	0.0	0.0	0.0	
30			0.5	0.6		0.0	0.0	0.0	0.0		0.0	
31			0.4		0.0			0.0		0.0		
Means.			0.7	0.5	0.2	0.4	0.0	0.0	0.0	0.0	0.0	

\* 5.0 during day

## DESCRIPTION OF RIVER GAGES, ETC.

## SUSQUEHANNA RIVER SYSTEM—SUSQUEHANNA RIVER (WEST BRANCH), CLEARFIELD, PA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1												0.6
2												0.5
3												0.5
4												0.4
5												0.4
6												0.4
7												0.4
8												0.4
9												0.4
10												0.4
11												0.4
12												0.4
13												0.4
14												0.4
15												0.4
16												0.4
17												0.4
18												0.4
19												0.4
20												0.4
21												0.4
22												0.4
23												0.4
24												0.8
25												1.7
26												2.0
27												1.6
28												3.5
29												2.7
30												1.9
31												1.8
Mean..												0.8

## SUSQUEHANNA RIVER SYSTEM—SUSQUEHANNA RIVER (WEST BRANCH), KARTHANS, PA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1	Frozen.	2.0						0.1			1.0	4.5
2		2.0						0.1			1.0	4.0
3		2.0						0.1			1.0	3.8
4		2.0						0.1			1.0	3.5
5		1.5						0.1			1.0	4.0
6		1.5						0.1			1.0	4.3
7		1.8						0.1			1.0	3.8
8		2.0						0.1			1.0	3.0
9		3.0						0.1			1.4	2.4
10		3.0						0.1			1.6	2.0
11		3.0						0.1			2.0	1.8
12		3.0						0.1			2.0	1.5
13		3.2						0.2			1.8	1.5
14		4.0						1.0			1.8	1.5
15		3.6						1.5			1.4	1.5
16		3.0						2.0			1.0	1.5
17		3.0						2.0			1.0	1.5
18	3.0	3.0						1.5			1.0	1.3
19	3.8	3.0						1.0			1.0	1.0
20	4.0	2.8						1.0			1.0	1.0
21	7.0	2.7						0.8			1.0	1.0
22	6.0	2.4						0.4			1.4	1.0
23	5.3	2.0						0.1			2.0	1.0
24	4.6	2.0						0.1			2.0	1.0
25	3.0	2.0						0.1			3.5	1.0
26	2.5	2.0						0.1			4.0	1.0
27	2.0	2.0						0.1			7.5	1.0
28	2.0	2.0						0.1			9.0	1.0
29	2.0							0.1			8.0	1.0
30	2.0							0.1			5.0	1.0
31	2.0							0.1				1.0
Means		2.5						0.4			2.3	1.9

## SUSQUEHANNA RIVER SYSTEM—SUSQUEHANNA RIVER (WEST BRANCH), KARTHAUS, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1901												
1	1.0	1.0					0.1				0.1	2.0
2	1.0	1.0					0.1				0.1	2.0
3	1.0	1.0					0.1				0.1	1.8
4	1.0	1.0					0.1				0.1	1.6
5	1.0	1.0					0.1				0.1	1.6
6	1.0	Frozen.					0.1				0.1	1.0
7	1.0						0.1				0.1	1.0
8	1.0						0.1				0.1	1.0
9	1.0						0.1				0.1	1.5
10	1.0						0.1				0.1	2.0
11	1.5						0.1				0.1	2.5
12	2.0						1.0				0.1	2.0
13	3.0						1.2				0.1	2.0
14	2.8						1.2				0.1	2.5
15	2.5						1.2				0.1	6.5
16	2.0						2.0				0.8	6.0
17	1.8						2.0				1.0	5.0
18	1.5						1.5				1.0	4.0
19	1.5						1.1				1.0	2.0
20	1.5						1.0				1.0	2.0
21	1.5						1.0				1.0	2.0
22	1.3						0.8				1.0	2.0
23	1.0						0.5				1.3	2.0
24	1.0						0.3				1.3	2.0
25	1.0						0.1				1.3	2.0
26	1.0						0.1				1.3	2.0
27	1.0						0.1				1.3	2.0
28	1.0						0.1				1.6	2.0
29	1.0						0.1				2.0	3.5
30	1.0						0.1				2.0	3.0
31	1.0						0.1					3.0
Means.	1.4						0.5				0.7	2.4

## SUSQUEHANNA RIVER SYSTEM—SUSQUEHANNA RIVER (WEST BRANCH), KEATING, PA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1	Frozen.	Frozen.	2.0	2.2	3.0	2.0	2.0	1.6	1.6	0.4	1.7	3.0
2			5.0	2.2	2.7	2.0	2.0	1.4	1.5	0.2	1.7	2.4
3			4.5	2.2	2.5	3.0	1.9	1.3	1.4	0.1	1.7	2.0
4			3.5	2.2	2.4	2.8	1.8	1.2	1.4	0.1	1.7	2.0
5			3.0	2.2	2.3	2.6	1.6	1.1	1.4	0.0	1.7	2.7
6			3.0	2.2	2.2	2.4	1.4	1.0	1.3	0.0	1.7	3.1
7			6.3	2.8	2.1	2.2	1.4	1.0	1.2	0.0	1.7	3.6
8			5.2	3.6	2.0	2.2	1.4	0.9	1.1	0.6	2.0	3.0
9		6.0	4.0	3.9	2.2	2.0	1.4	0.8	1.0	1.9	2.2	2.6
10		4.0	4.0	3.9	2.1	1.9	1.8	0.8	1.0	1.4	2.2	2.3
11		4.0	4.0	3.6	2.0	1.8	1.8	0.8	0.9	1.0	2.2	2.1
12		4.0	3.7	3.3	2.0	1.7	2.8	0.8	0.8	0.7	2.2	2.0
13		4.0	3.2	3.1	2.0	1.6	2.8	0.8	0.7	0.6	2.1	2.0
14		5.4	2.7	3.0	2.0	1.6	2.6	0.7	0.6	0.9	2.0	1.8
15		4.4	2.7	2.9	2.0	1.5	2.4	0.7	0.5	2.5	1.9	1.7
16		3.6	2.7	2.7	2.0	1.5	2.2	0.7	0.5	2.3	1.9	1.6
17		3.0	2.7	2.9	2.0	1.5	2.2	0.7	0.5	2.0	1.9	1.5
18		2.6	2.7	3.4	2.0	1.4	2.0	0.7	0.5	1.7	1.9	1.5
19		2.5	2.2	2.7	4.0	3.0	1.8	0.7	0.5	1.6	1.9	1.5
20		4.5	2.2	3.8	3.6	2.9	1.4	1.8	0.7	0.5	1.5	2.2
21		12.9	2.2	4.3	3.6	2.8	1.3	1.6	0.7	0.5	1.4	2.7
22		9.5	2.6	4.0	3.6	2.7	1.3	1.6	0.7	0.5	1.3	3.0
23		6.0	5.2	3.5	4.0	2.6	1.3	1.6	1.3		1.3	3.3
24		4.5	4.0	3.0	4.0	2.5	1.2	1.5	1.7		2.0	3.3
25		2.7	2.2	3.0	3.8	2.5	1.2	1.5	2.1		2.0	3.9
26		2.2	2.0	3.0	3.6	2.5	1.2	2.6	1.8		2.0	10.3
27		2.0	2.0	3.0	3.5	2.5	1.2	2.3	2.6		1.9	11.7
28		1.8	2.0	2.6	3.4	2.5	1.1	2.0	2.4		1.8	7.5
29	Frozen.		2.4	3.3	3.5	1.1	1.6	2.2			1.7	5.4
30			2.2	3.3	3.0	1.1	1.6	2.0			1.7	4.0
31			2.2		2.5		1.6	1.7			1.7	
Means.		3.4	3.4	3.2	2.4	1.7	1.9	1.2	0.9	1.2	3.1	1.9

## SUSQUEHANNA RIVER SYSTEM—SUSQUEHANNA RIVER (WEST BRANCH), KEATING, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1	1.5	1.1	Frozen.	2.8	2.2		3.0	1.8	2.6	1.5		
2	1.5	1.1		2.0	2.2		2.7	1.8	2.6	1.4		
3	1.5	1.1		2.0	2.5		2.4	1.7	2.8	1.3		
4	1.5	1.1		3.0	3.1		2.1	1.7	3.4	1.2		
5	1.5	1.1		4.0	3.1		2.0	1.6	3.6	1.1		
6	1.5	1.1	3.8	5.2	2.9		1.8	1.6	3.6	1.0		
7	1.5	1.1	2.8	7.8	2.7		1.8	1.6	3.4	1.0		
8	1.5	Frozen.	2.3	8.8	2.6	3.7	1.8	2.6	3.0			
9	1.5		2.4	7.8	2.6	3.5	1.7	2.9	3.0			
10	1.5		4.0	6.1	2.6	3.3	1.6	2.9	2.8			
11	1.8		8.0	5.0	2.6	3.1	2.0	2.9	2.6			
12	2.6		7.2	4.1	2.9	2.9	2.7	2.6	2.6			
13	4.6		6.1	3.6	3.6	2.6	2.6	2.2	2.6			
14	3.8		5.3	3.3	3.8	2.5	2.4	1.8	2.9			
15	3.0		5.1	3.0	3.5	2.4	2.0	1.8	3.2			
16	2.1		4.4	2.8	3.3	2.3	1.8	3.0	3.4			
17	1.6		3.7	2.6	3.0	2.2	1.8	2.7	3.8			
18	1.3		3.3	2.6	3.0	2.1	1.8	2.7	3.8			
19	1.1		3.7	2.8	2.8	2.0	1.7	2.7	3.8			
20	1.1		4.3	3.4	2.6	2.0	1.5	2.4	3.6			
21	1.1		6.3	11.0	2.4	2.3	1.3	3.0	3.2			
22	1.1		6.6	10.0	2.3	3.3	1.2	5.0	2.8			
23	1.1		5.2	7.5	2.7	3.7	1.0	4.8	2.5			
24	1.1		4.5	6.0	2.7	3.5	0.8	4.6	2.4		2.0	
25	1.1		4.5	4.9	2.7	3.3	0.7	4.4	2.1		4.2	
26	1.1		4.7	4.2	3.0	3.0	0.9	4.2	1.9		4.2	
27	1.1		6.9	3.6	5.0	3.4	1.5	3.8	1.7		3.8	
28	1.1		6.5	3.1	7.0	3.4	1.5	3.5	1.6		3.4	
29	1.1		5.7	2.7	9.5	3.8	1.5	3.0	1.6		2.8	
30	1.1		4.5	2.4	10.5	3.4	1.5	2.8	1.6		2.3	
31	1.1		3.6				1.5	2.6				
Means.	1.6		4.8	4.6	3.5	2.9	1.8	2.8	2.8			
<b>1903</b>												
1							1.6	1.0	1.1			0.7
2							1.4		1.0			0.7
3							1.2		0.9			0.6
4							1.2		0.8			
5							1.2	1.0	0.7			
6							4.5	1.2	0.6			
7							3.6	1.6				
8							2.9	1.3		1.0		
9							2.3	1.1		5.5		
10							1.7	0.9		3.8		
11							1.2	0.8		2.3		
12							1.7	0.7		1.2		
13							1.5	0.6		0.8		
14							1.3			0.6		Frozen.
15							1.0					
16							0.8					
17							0.6				7.8	
18							0.6			2.4	7.0	
19							6.3			2.0	4.9	
20							4.7	1.0		1.7	3.2	
21							3.6	0.9		1.4	2.2	
22							2.7	0.8		1.2	1.7	
23							2.0	0.7		1.0	1.4	
24						2.8	1.7	0.6		0.8	1.4	
25						3.2	1.5			0.6	1.3	
26						2.6	1.3				1.2	
27						2.2	1.2				1.1	
28						1.8	1.1				1.0	
29						1.6	1.0				0.9	
30						1.6					0.8	
31							1.0	1.1				
Means.							1.9	1.0		1.8		

## SUSQUEHANNA RIVER SYSTEM—SUSQUEHANNA RIVER (WEST BRANCH), KEATING, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	Frozen.	1.3	4.0	4.0	4.8	1.9						
2.....		Frozen.	5.0	13.7	4.1	1.9						
3.....			6.0	8.2	3.2	1.9						
4.....			14.5	5.4	2.2	1.7						
5.....			8.0	4.0	1.8	1.5						
6.....			4.5	3.0	1.6	1.3						
7.....			3.8	2.4	1.4	1.1	0.8					
8.....		8.5	12.0	2.0	1.3	1.0	1.5					
9.....		5.8	8.0	2.5	1.2	0.9	3.1					
10.....		3.7	5.4	5.5	1.1	1.5	6.3					
11.....		2.3	4.2	5.0	0.9	1.3	6.8					
12.....		1.8	3.5	4.4	0.8	1.1	4.7					
13.....		1.6	2.9	4.0	0.7	1.0	3.4					
14.....		1.5	2.3	3.3	0.6	0.9	2.2					
15.....		Frozen.	2.0	2.8		0.9	1.6					
16.....			2.0	3.2		1.0	1.1					
17.....			1.9	2.8		1.0	0.8					
18.....			1.8	2.5	1.0	0.8	0.7					
19.....			1.8	2.3	6.0	0.7	0.6					
20.....			2.5	2.2	5.3	0.7						
21.....			4.0	2.1	4.0	1.0						
22.....			3.2	2.0	3.0	1.9						
23.....	12.3		4.2	1.9	2.4	2.2						
24.....	8.4		7.2	1.8	2.0	1.8						
25.....	5.7		6.2	1.7	1.8	1.6						
26.....	3.8		7.1	2.0	1.6	1.4						1.0
27.....	2.9		7.1	2.6	1.6	1.2						1.5
28.....	2.2		5.3	3.0	1.6	1.0						4.5
29.....	1.9		3.8	5.4	1.6	0.8						3.5
30.....	1.7		2.8	5.2	1.6	0.6						2.3
31.....	1.5		2.0		1.9							1.8
Means.....			4.8	3.7	2.2	1.3						

## SUSQUEHANNA RIVER SYSTEM—SUSQUEHANNA RIVER (WEST BRANCH), RENOV, PA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	Frozen.	Frozen.	Frozen.	2.9	3.0	2.2	0.0	0.0	0.0	-0.7	0.0	4.5
2.....			6.0	2.9	3.0	2.5	0.0	0.0	0.0	-0.2	0.0	4.3
3.....			5.2	3.3	3.0	3.0	0.0	0.0	0.0	-0.2	0.0	4.0
4.....			4.3	4.0	3.0	3.0	0.0	-0.1	0.0	-0.3	0.0	3.0
5.....			4.0	4.0	3.0	2.5	0.0	-0.2	0.0	-0.3	0.0	4.0
6.....			3.5	3.6	2.8	2.3	0.0	-0.3	0.0	-0.3	0.0	5.0
7.....			6.0	4.0	2.0	2.0	0.0	-0.4	0.0	-0.5	0.0	5.0
8.....			5.9	5.0	1.5	2.0	0.0	-0.5	0.0	0.0	0.0	4.5
9.....		3.6	4.8	4.8	1.3	2.0	0.0	-0.5	-0.4	1.0	0.0	4.0
10.....		3.5	5.0	4.2	1.8	2.0	0.0	-0.5	-0.4	0.8	0.0	3.2
11.....		3.5	5.0	4.0	1.8	1.2	0.0	-0.5	-0.4	0.5	0.0	3.0
12.....		3.2	4.0	3.6	1.8	1.2	1.5	-0.6	-0.4	0.2	0.0	3.0
13.....		3.5	3.8	2.9	1.8	1.0	2.0	-0.6	-0.4	0.0	0.0	2.8
14.....		6.5	3.5	2.3	2.0	2.5	0.5	-0.6	-0.6	0.0	0.0	2.5
15.....		5.2	3.2	2.3	2.0	2.0	0.0	-0.5	-0.6	0.3	0.0	2.2
16.....		4.6	3.0	2.3	2.0	1.5	0.0	-0.3	-0.7	0.3	0.0	2.0
17.....		4.0	2.6	2.3	2.0	1.0	0.0	0.0	-0.7	0.3	0.0	Frozen.
18.....		3.5	2.0	4.6	1.5	0.8	0.0	0.0	-0.7	0.3	0.0	
19.....	3.0	3.0	2.5	4.6	2.2	0.5	0.0	0.0	-0.7	0.0	0.0	
20.....	5.8	2.5	3.3	4.3	2.2	0.2	0.0	0.0	-0.7	0.0	1.0	
21.....	12.0	2.0	5.3	4.0	2.2	0.2	0.0	0.0	-0.7	0.0	1.0	
22.....	9.0	3.0	4.3	4.0	2.0	0.0	0.0	0.3	-0.7	0.0	1.0	
23.....	6.5	6.0	3.8	4.3	1.8	0.0	0.0	0.3	-0.7	0.0	1.5	
24.....	5.0	5.0	4.2	4.0	1.5	0.0	0.0	0.6	-0.7	0.0	2.0	
25.....	4.3	4.0	4.0	4.0	1.5	0.0	0.0	0.6	-0.7	1.0	3.0	
26.....	4.0	Frozen.	4.0	4.0	2.0	0.0	0.0	0.7	-0.7	0.8	8.0	
27.....	3.5		4.0	3.2	1.8	0.0	0.0	0.8	-0.7	0.8	11.0	
28.....	3.0		3.8	3.2	1.5	0.0	0.0	0.9	-0.7	0.8	9.0	
29.....	3.0		3.3	3.2	1.5	0.0	0.0	0.8	-0.7	0.8	6.0	
30.....	3.0		3.3	3.2	3.5	0.0	0.0	0.4	-0.7	0.8	5.0	
31.....	Frozen.		3.3		2.8		0.0	0.2		1.0		
Means.....		3.9	4.0	3.6	2.1	1.2	0.1	0.0	-0.5	0.2	1.6	3.6

\* 20.0 at 11 p. m.

## SUSQUEHANNA RIVER SYSTEM—SUSQUEHANNA RIVER (WEST BRANCH), RENOVO, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1901												
1.....	Frozen.	Frozen.	Frozen.	3.8	2.5	6.3	2.0	0.0	2.5	0.0	0.0	1.2
2.....				3.5	2.5	5.3	1.8	0.0	2.9	0.0	0.0	1.0
3.....				3.5	2.8	5.0	1.5	0.0	3.8	0.0	0.0	2.0
4.....				4.0	2.8	4.5	1.5	0.0	3.0	0.0	0.0	2.0
5.....				4.7	2.5	4.0	1.5	0.0	2.5	0.0	0.0	2.0
6.....				5.2	2.0	3.7	1.8	0.0	2.0	0.0	0.0	2.0
7.....				7.0	2.0	3.0	2.0	0.0	2.0	0.0	0.0	Frozen.
8.....				8.5	2.0	4.5	1.5	0.5	1.5	0.0	0.0	.....
9.....			5.0	8.0	2.0	4.3	1.2	1.0	1.0	0.0	0.0	.....
10.....			5.0	6.5	2.0	3.8	1.2	0.5	1.0	0.0	0.0	.....
11.....			8.0	5.5	2.0	3.3	1.2	0.0	1.0	0.0	0.0	4.0
12.....			7.0	5.0	2.5	2.5	1.0	0.0	1.0	0.0	0.0	4.0
13.....	4.0		6.6	4.8	2.8	2.0	0.6	0.0	1.0	0.0	0.4	3.8
14.....	4.5		6.0	4.5	2.8	2.0	0.2	0.0	1.5	0.0	1.0	3.6
15.....	4.0		5.3	4.2	2.5	2.0	0.0	0.0	1.7	0.0	1.2	11.5
16.....	3.5		4.3	4.0	2.3	2.0	0.0	3.0	2.0	0.0	1.2	11.0
17.....	3.5		4.2	3.6	2.0	1.8	0.0	2.0	2.5	0.0	1.0	7.0
18.....	3.3		3.9	3.2	2.0	1.8	0.0	2.0	3.0	0.0	1.0	5.2
19.....	Frozen.		3.5	3.0	2.0	1.8	0.0	3.5	2.5	0.0	1.0	4.0
20.....			3.0	4.0	2.0	1.8	0.0	2.5	2.0	0.0	1.0	4.0
21.....			6.5	10.0	2.0	2.2	0.0	4.0	1.5	0.0	0.5	Frozen.
22.....			7.0	10.5	2.0	2.6	0.0	3.3	1.5	0.0	0.0	Frozen.
23.....			6.9	8.0	3.0	3.0	0.0	2.2	1.5	0.0	0.0	.....
24.....			5.0	7.0	4.0	3.5	0.0	4.2	1.3	0.0	0.0	.....
25.....			5.0	6.0	3.8	3.0	0.0	5.5	1.0	0.0	4.0	.....
26.....			5.5	5.0	3.8	2.6	0.0	4.3	1.0	0.0	4.3	.....
27.....			8.0	4.2	5.0	2.4	0.0	3.5	0.5	0.0	4.0	.....
28.....			6.7	3.9	7.0	2.4	0.0	2.9	0.0	0.0	3.0	.....
29.....			6.0	3.5	8.5	2.4	0.0	2.2	0.0	0.0	2.2	.....
30.....			4.3	3.2	10.0	2.4	0.0	1.9	0.0	0.0	1.5	.....
31.....			4.0	.....	8.0	.....	0.0	1.7	.....	0.0	.....	.....
Means.....			5.5	5.3	3.3	3.1	0.6	1.6	1.6	0.0	0.9	4.3
1902												
1.....	Frozen.	Frozen.	17.0	4.7	1.8	1.0	6.5	4.0	0.0	0.0	0.0	0.0
2.....			13.0	4.5	1.8	1.0	6.0	4.2	0.0	0.5	0.0	0.0
3.....			11.0	4.0	1.8	0.5	4.5	3.8	0.0	0.5	0.0	0.0
4.....			8.0	3.6	2.2	0.2	11.0	3.0	0.0	0.3	0.0	0.0
5.....			6.2	3.5	2.2	0.2	8.0	2.0	0.0	0.0	0.0	1.0
6.....			5.2	3.5	2.2	0.2	6.0	2.0	0.0	0.0	0.0	1.0
7.....			4.2	3.7	2.2	0.2	5.0	2.0	0.0	0.0	0.0	1.0
8.....			4.0	4.0	3.0	0.2	5.0	2.0	0.0	0.0	0.0	1.0
9.....			4.0	12.5	3.0	0.2	4.0	1.5	0.0	0.0	0.0	1.0
10.....			3.8	11.0	2.5	0.2	4.5	1.5	0.0	0.0	0.0	Frozen.
11.....			4.0	8.0	2.0	0.0	5.5	1.5	0.0	0.0	0.0	.....
12.....			5.0	6.3	2.0	0.5	5.0	1.5	0.0	0.0	0.0	.....
13.....			7.5	5.5	2.0	0.5	4.5	1.5	0.0	0.3	0.0	.....
14.....			8.8	4.5	2.0	1.2	4.0	1.5	0.0	0.5	0.0	.....
15.....			7.0	4.3	2.0	1.5	3.5	1.5	0.0	0.6	0.0	.....
16.....			7.0	4.0	2.0	1.8	3.0	1.5	0.0	0.4	0.0	.....
17.....			8.5	3.8	1.6	1.8	2.5	1.0	0.0	0.3	0.0	.....
18.....			8.0	3.6	1.6	1.8	2.5	0.8	-0.1	0.2	0.0	.....
19.....			6.0	3.0	1.6	1.5	2.5	0.5	-0.1	0.0	0.0	3.0
20.....			5.0	2.5	1.4	1.3	2.5	0.2	-0.2	0.0	0.0	3.0
21.....			4.2	2.1	1.4	1.2	4.5	0.0	-0.3	0.0	0.0	3.0
22.....			4.0	2.0	1.2	1.0	4.5	0.0	-0.3	0.0	0.0	6.0
23.....			4.0	2.0	1.0	1.0	4.5	0.0	-0.4	0.0	0.0	5.0
24.....			3.8	2.0	1.0	0.8	3.5	0.0	-0.5	0.0	0.0	4.0
25.....			3.0	2.0	0.8	0.5	4.0	0.0	-0.6	0.0	0.0	4.0
26.....			2.5	2.0	1.0	1.0	4.0	0.0	-0.4	0.0	0.0	4.0
27.....			2.2	2.0	1.2	2.0	4.0	0.0	-0.2	0.0	0.0	3.5
28.....			2.2	1.8	1.4	2.3	4.0	0.0	0.0	0.0	0.0	3.0
29.....			2.2	1.8	1.6	2.3	4.0	0.0	0.0	0.0	0.0	2.5
30.....			3.7	1.8	1.3	6.0	4.0	0.0	0.0	0.0	0.0	2.0
31.....			4.8	.....	1.0	.....	4.0	0.0	.....	0.0	.....	2.0
Means.....			5.8	4.0	1.7	1.1	4.5	1.2	-0.1	0.1	0.0	1.6

\*13.5 at 6 a. m.



## SUSQUEHANNA RIVER SYSTEM—SUSQUEHANNA RIVER (WEST BRANCH), RENOVO, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1903												
1.....	Frozen.	6.5	13.0	4.4	1.6	0.0	2.0	1.7	4.0	0.0	1.0	1.4
2.....		6.5	9.0	4.2	1.3	0.0	2.0	1.5	3.0	0.0	0.5	1.2
3.....		7.5	6.5	4.0	1.0	0.0	2.0	1.5	2.5	0.0	0.2	Frozen.
4.....		9.0	5.5	4.0	1.0	0.0	2.0	1.5	2.0	0.0	0.0	
5.....		11.0	5.0	3.7	1.0	0.0	2.0	2.0	2.0	0.0	0.0	
6.....	3.5	8.5	5.0	3.5	1.0	0.0	4.5	2.2	2.0	1.0	0.0	
7.....	3.0	6.5	5.0	3.5	1.0	0.0	4.0	2.2	1.8	1.7	0.0	
8.....	3.0	5.5	5.9	3.5	1.0	0.0	3.5	2.0	1.5	2.0	0.0	
9.....	2.0	4.0	10.0	4.0	0.8	0.0	3.0	1.8	1.2	6.0	0.0	
10.....	Frozen.	3.5	9.4	4.5	0.8	0.0	2.0	1.6	2.0	5.0	0.0	
11.....		3.0	8.0	4.0	0.6	0.3	2.0	1.5	2.2	4.0	0.0	
12.....		3.5	8.0	4.0	0.3	0.3	2.0	1.5	2.0	3.0	0.0	
13.....		4.0	6.5	4.5	0.2	0.4	2.0	1.3	1.8	2.5	0.0	
14.....		5.0	5.5	5.0	0.0	0.6	1.9	1.2	1.5	2.0	0.0	
15.....		5.0	5.0	7.0	0.0	0.8	2.0	1.1	1.0	2.0	0.0	
16.....		5.0	4.7	7.0	0.0	1.0	2.0	1.0	0.5	1.8	0.0	
17.....		5.0	4.0	7.0	0.0	1.5	1.9	1.0	1.0	1.8	8.5	
18.....		4.0	4.0	6.0	0.0	1.8	1.9	1.0	1.2	2.5	8.0	
19.....		4.0	3.7	4.5	0.0	2.0	5.8	1.0	1.3	3.0	6.0	
20.....		3.7	3.3	4.0	0.0	1.7	5.0	1.0	1.0	3.0	5.0	
21.....		3.4	3.0	3.8	0.0	1.5	4.8	1.5	1.0	2.5	4.0	
22.....		3.2	3.0	3.5	0.0	1.3	4.2	1.5	0.8	2.0	3.0	
23.....		3.0	4.0	3.0	0.0	1.0	4.0	1.0	0.6	1.5	3.0	
24.....		2.6	9.0	2.5	0.0	2.0	2.6	0.5	0.4	1.5	2.5	
25.....		2.5	7.5	2.0	0.0	4.5	2.4	0.3	0.2	1.5	2.3	
26.....		2.5	6.0	2.0	0.0	4.5	2.2	0.3	0.2	1.5	2.1	
27.....		2.0	5.0	2.0	0.0	4.3	2.0	0.3	0.1	1.5	2.0	
28.....		4.0	4.2	2.0	0.0	2.0	1.9	0.5	0.0	1.5	1.8	
29.....			4.0	2.0	0.0	2.0	1.8	5.5	0.0	1.5	1.6	
30.....			3.5	1.8	0.0	2.0	1.7	5.0	0.0	1.3	1.5	
31.....	10.0		4.0		0.0		1.7	4.0		1.0		
Means		4.8	5.8	3.9	0.4	1.2	2.7	1.6	1.3	1.9	1.8	

SUSQUEHANNA RIVER SYSTEM—SUSQUEHANNA RIVER (WEST BRANCH), LOCKHAVEN, PA.<sup>b</sup>

1900												
1.....	Frozen.	Frozen.	Frozen.	1.3	0.9	1.2			0.2		0.3	2.0
2.....				1.3	0.9	1.2	0.3		0.2		0.5	1.8
3.....			4.6	1.4	0.9	1.3	0.2		0.1		0.4	1.5
4.....			3.5	1.7	0.8	1.4	0.2		0.1		0.2	1.4
5.....			2.5	1.9	0.7	1.4	0.1		0.0		0.2	2.1
6.....			2.0	1.8	0.7	1.2	0.1				0.2	3.4
7.....			2.0	2.0	0.5	1.0	0.1				0.2	2.5
8.....			4.5	2.5	0.5	0.8	0.2				0.1	2.1
9.....			3.4	2.6	0.4	0.7	0.3			0.7	0.4	1.8
10.....		2.7	3.0	2.3	0.4	0.6	0.3			0.7	0.4	1.5
11.....		2.2	3.1	1.9	0.4	0.5	0.5			0.5	0.4	1.3
12.....		1.7	2.5	1.6	0.4	0.4	0.4			0.3	0.3	1.2
13.....		1.2	2.0	1.4	0.4	0.2	0.6			0.2	0.2	1.0
14.....		3.5	1.6	1.3	0.7	0.2	0.4			0.3	0.3	Frozen.
15.....		4.5	1.4	1.3	0.7	0.3	0.3			0.8	0.3	
16.....		4.0	1.0	1.3	0.7	0.4	0.2			0.7	0.3	
17.....		2.5	0.8	1.4	0.6	0.3	0.1			0.4	0.3	
18.....		Frozen.	Frozen.	1.9	0.5	0.1				0.2	0.3	
19.....				2.5	0.6	0.0				0.2	0.3	
20.....				1.9	1.0	0.0				0.1	0.3	
21.....		7.0		3.4	2.1	0.9				0.1	0.4	
22.....		6.1		2.8	1.9	0.7		0.2		0.0	0.7	
23.....		4.2		1.8	2.1	0.5		0.3		0.0	1.0	
24.....		3.2		2.0	2.0	0.5		0.2		0.2	1.3	
25.....		2.4		1.6	2.0	0.4		0.5		1.1	2.0	
26.....		2.0		2.0	1.8	0.7		0.5		0.8	4.0	
27.....		2.0		1.7	1.6	0.5		0.5		0.7	7.5	
28.....		1.4		1.5	1.4	0.5		0.9		0.7	5.0	
29.....	Frozen.			1.5	1.2	0.6		0.2		0.5	3.5	
30.....				1.5	1.0	1.8		0.1		0.4	2.7	
31.....				1.4		1.6		0.3		0.3		
Means				2.3	1.7	0.7	0.7	0.3		0.4	1.1	

<sup>a</sup> 6.0 during day.<sup>b</sup> Stages below zero from June 21 to July 1, July 18 to 27, July 31 to August 21, and September 6 to October 8, all inclusive.

## SUSQUEHANNA RIVER SYSTEM—SUSQUEHANNA RIVER (WEST BRANCH), LOCKHAVEN, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.	Frozen.	Frozen.	Frozen.	2.1	1.1	4.0	0.9		0.8			1.8
2.				1.5	1.1	3.1	0.7		1.5			0.6
3.				1.5	2.1	2.7	0.5		1.8			0.5
4.				1.5	1.4	2.4	0.4		1.5			Frozen.
5.				2.3	1.3	2.0	0.6		1.3			
6.				2.5	1.2	1.6	0.5		1.0			
7.				3.5	1.0	1.5	0.4		0.8			
8.				5.0	0.9	2.0	0.3	0.3	0.6			
9.				4.8	0.8	2.1	0.2	0.2	0.4			
10.				4.0	0.9	1.8	0.1	0.1	0.3			
11.			3.0	3.1	0.9	1.5	0.0	0.0	0.3			2.0
12.			4.5	2.8	1.0	1.3		0.0	0.2			2.0
13.			3.8	2.4	1.1	1.0		0.0	0.3			1.7
14.	3.7		3.2	2.2	1.2	0.9		0.0	0.6			1.8
15.	2.0		3.0	2.2	1.3	0.9		0.0	1.1		0.0	6.0
16.	Frozen.		2.7	1.8	1.1	0.8		0.7	0.9		0.1	7.0
17.	1.7		2.3	1.6	1.0	0.8		1.0	0.8		0.1	4.5
18.	1.5		2.0	1.5	1.0	0.7		0.8	0.9		0.1	3.3
19.	Frozen.		2.0	1.4	0.9	0.6		1.4	1.1		0.1	2.7
20.			2.5	1.4	0.9	0.6		1.2	0.9		0.0	1.7
21.			2.7	5.5	0.8	1.0		1.5	0.7		0.0	1.0
22.			4.0	6.5	0.8	1.2		1.4	0.6		0.0	Frozen.
23.			3.5	5.1	1.0	1.4		1.1	0.5			
24.			2.8	4.1	1.5	1.5		1.5	0.3			
25.			2.7	3.1	1.5	1.5		2.7	0.2		2.5	
26.			3.1	2.7	1.7	1.2		2.3	0.1		2.3	
27.			4.0	2.4	2.0	1.0		1.7	0.0		2.5	
28.			4.5	2.1	4.0	1.0		1.3	0.0		2.2	
29.			4.0	1.5	5.5	1.1		1.0			2.0	
30.			3.0	1.3	6.5	1.2		0.8			2.0	
31.			2.3		5.3			0.7				
Means.			3.1	2.8	1.7	1.5		0.9	0.7			
<b>1902</b>												
1.	Frozen.	Frozen.	12.0	2.0	0.3		3.2	1.2			-1.8	-0.7
2.			10.0	1.8	0.2		2.7	1.0			-2.0	-0.7
3.			7.0	1.6	0.5		2.2	1.0			-2.1	-0.8
4.			5.0	1.5	0.9		5.1	0.7			-2.1	-0.4
5.			3.5	1.3	0.8		4.5	0.5			-2.1	0.4
6.			2.0	1.3	0.8		3.0	0.2			-2.1	Frozen.
7.			1.8	1.4	0.8		2.3	0.0			-2.1	
8.			1.7	1.4	1.0		1.8				-2.1	
9.			1.8	7.2	1.1		1.6				-2.2	
10.			1.5	7.0	1.0		1.6				-2.3	
11.			1.8	5.0	0.9		2.9				-2.4	
12.			2.1	3.8	0.8		2.3				-2.5	0.0
13.			3.2	3.0	0.7		1.8				-2.6	Frozen.
14.			5.0	2.5	0.7		1.1				-2.6	2.3
15.			4.1	2.0	0.5		0.5				-2.6	Frozen.
16.			2.1	1.6	0.4	0.2	0.3				-2.6	
17.			4.0	1.4	0.3	0.5	0.2				-2.6	1.8
18.			4.8	1.3	0.3	0.4	0.2				-2.6	3.0
19.			3.5	1.2	0.1	0.2	0.1				-2.6	2.0
20.			2.8	1.0	0.1	0.1	0.1				-2.6	2.4
21.			2.0	0.9	0.0	0.1	1.0			-2.6	-2.6	2.3
22.			1.8	0.8			1.6			-2.6	-2.6	2.0
23.			1.5	0.7			1.5			-2.6	-2.6	4.0
24.			1.4	0.5			1.5			-2.6	-2.6	3.7
25.			1.1	0.5			1.4			-2.6	-2.6	3.0
26.			1.0	0.4		0.0	1.9			-2.6	-2.6	2.5
27.			0.9	0.4		0.0	1.5			-2.6	-2.3	2.1
28.			0.8	0.4		1.0	1.3			-2.6	-2.1	1.1
29.			1.1	0.3		0.5	1.1			-2.1	-1.2	1.0
30.			1.5	0.3		2.0	0.9			-1.5	-1.2	Frozen.
31.			2.0				1.2			-1.7		
Means.			3.1	1.8	0.6		1.7				-2.3	1.6

## SUSQUEHANNA RIVER SYSTEM—SUSQUEHANNA RIVER (WEST BRANCH), LOCKHAVEN, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	Frozen.	4.9	8.5	2.0	0.5	-0.1	1.3	0.8	1.8	0.1	0.3	Frozen.
2.....		3.8	6.3	2.2	0.4	-0.3	1.1	0.5	1.7	0.1	0.2	
3.....		3.3	4.2	1.9	0.4	-0.5	1.0	0.4	1.5	0.1	0.1	
4.....		5.4	3.1	1.7	0.4	-0.8	1.0	0.2	1.4	0.1	0.0	
5.....	1.0	8.0	2.8	1.7	0.4	-0.9	0.9	0.6	1.0	0.0	-0.3	
6.....	3.4	6.0	2.6	1.5	0.3	-1.2	2.5	0.8	0.7	0.3	-0.3	
7.....	3.0	4.1	2.9	1.4	0.3	-1.4	2.3	0.8	0.5	0.7	-0.2	
8.....	2.8	3.0	3.0	1.4	0.3	-1.0	1.9	0.7	0.4	1.2	-0.1	
9.....	Frozen.	2.5	5.5	1.5	0.2	-0.7	1.7	0.7	0.3	3.0	-0.1	
10.....		2.1	5.6	2.0	0.2	0.3	1.5	0.6	0.9	3.5	0.0	
11.....		2.0	4.5	2.0	0.2	0.5	1.4	0.4	0.7	2.5	0.0	
12.....		1.8	5.1	1.9	0.1	0.5	1.9	0.3	0.6	2.0	-0.2	
13.....		2.5	4.2	2.3	0.0	0.5	1.8	0.2	0.5	1.8	-0.3	
14.....		2.8	3.3	2.4	0.0	0.5	1.0	0.0	0.4	1.5	-0.3	
15.....		2.5	1.9	3.7	0.0	0.9	0.6	-0.2	0.3	1.3	-0.4	
16.....		2.5	2.5	4.3	-0.1	0.9	0.4	-0.2	0.3	0.8	-0.4	
17.....		2.8	2.1	4.2	-0.1	0.7	0.3	-0.2	0.5	1.0	1.0	
18.....		2.6	2.0	3.3	-0.2	0.5	0.4	-0.2	0.9	1.0	5.2	
19.....		1.9	1.8	2.8	-0.2	0.5	2.8	-0.1	1.0	1.5	4.8	
20.....		1.5	1.5	2.2	-0.3	0.4	3.2	0.0	0.9	1.4	3.4	
21.....		1.0	1.4	1.9	-0.4	0.4	2.3	0.9	0.7	1.2	2.3	
22.....		1.0	1.4	1.5	-0.4	0.5	2.0	0.9	0.5	1.2	1.8	
23.....		1.0	1.6	1.3	-0.4	0.5	1.9	0.1	0.5	0.9	1.6	
24.....		1.0	5.3	1.1	-0.3	1.0	1.7	0.0	0.4	0.8	1.4	
25.....		1.3	4.6	1.0	-0.3	2.5	1.5	-0.4	0.4	0.8	1.2	
26.....		1.6	3.5	1.0	-0.4	2.6	1.3	0.0	0.3	0.7	1.0	
27.....		1.7	2.8	0.9	-0.5	2.0	0.9	-0.2	0.3	0.6	0.8	
28.....		1.8	2.3	0.8	-0.5	1.5	0.7	0.2	0.4	0.4	Frozen.	
29.....			2.0	0.7	0.0	1.5	0.6	0.4	0.2	0.4		
30.....			1.6	0.6	0.0	1.4	0.5	3.2	0.2	0.3		
31.....	5.9		1.5		-0.1		0.6	2.3		0.3		
Means.....		2.7	3.3	1.9	0.3	0.4	1.4	0.4	0.7	1.0	0.8	
<b>1904</b>												
1.....	Frozen.	Frozen.	Frozen.	2.3	3.3	0.8	0.3					
2.....				8.8	2.9	0.8	0.2					
3.....				5.0	2.3	0.9	0.2					
4.....			12.5	4.3	1.7	0.7	0.1					
5.....			6.0	3.1	1.5	0.6	0.1					Frozen.
6.....			3.5	2.6	1.3	0.0	0.0					
7.....			2.8	2.3	1.0	-0.1	0.0					
8.....		4.8	8.0	2.0	0.9	-0.1	0.5					
9.....		4.5	5.8	2.0	0.5	-0.2	1.5					
10.....		3.8	3.8	1.9	0.4	-0.2	1.8					
11.....		2.8	3.0	3.6	0.0	-0.2	4.0					
12.....		Frozen.	2.7	3.0	-0.1	0.0	3.0					
13.....			2.1	2.8	-0.3	-0.2	1.0					
14.....			1.7	2.5	-0.3	-0.2	0.4					
15.....			1.5	2.3	-0.3	-0.2	0.4					
16.....			1.5	2.0	0.0	0.2	0.2					
17.....			1.4	1.8	-0.1	0.3	0.2					
18.....			1.3	2.0	-0.1	0.4	0.0					
19.....			1.2	1.8	-0.3	0.5	-0.2					
20.....			1.2	1.5	3.5	0.5						
21.....			2.5	1.5	2.8	0.8						
22.....			2.5	1.3	2.1	1.2						
23.....	8.5		2.4	1.2	2.0	1.6						
24.....	6.5		4.5	1.2	1.4	0.8						
25.....	4.5		4.3	1.0	1.3	0.5						
26.....	3.0		4.5	1.4	1.2	0.0						
27.....	2.1		4.3	2.0	1.0	0.0						
28.....	2.0		4.3	2.1	1.0	0.3						
29.....	Frozen.		3.1	3.0	0.9	0.3						
30.....			2.5	3.5	0.5	0.5						
31.....			2.0		0.7							
Means.....			3.5	2.5	1.1	0.3	0.7					

## DESCRIPTION OF RIVER GAGES, ETC.

## SUSQUEHANNA RIVER SYSTEM—SUSQUEHANNA RIVER (WEST BRANCH), NISBET, PA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	Frozen.	Frozen.	Frozen.	2.5	2.8							
2.....				2.4	2.7							
3.....			10.5	2.3	2.6							
4.....			7.5	2.3	2.5							
5.....			7.3	2.5	2.5							
6.....			5.2	2.8	2.4							
7.....			4.1	3.5	2.4							
8.....			6.0	3.4	2.4							
9.....			4.8	3.4	2.3							
10.....			4.2	3.2	2.3							
11.....			4.0	3.1	2.3							
12.....			3.8	3.1	2.1							
13.....			3.6	3.3	2.1							
14.....		5.4	3.2	3.3	2.0							
15.....		5.8	3.0	3.2								
16.....		4.0	2.8	3.1								
17.....		3.6	2.4	3.0								
18.....		3.2	2.0	3.0								
19.....		3.0	2.0	3.4								
20.....		2.9	2.0	3.6								
21.....	12.0	2.5	2.4	3.3								
22.....	12.4	3.8	2.6	3.8								
23.....	7.5	8.0	2.9	4.0								
24.....	6.4	7.4	3.4	3.7								
25.....	5.0	6.2	4.4	3.6								
26.....	3.8	3.8	3.6	3.6								
27.....	3.1	Frozen.	3.2	3.4								
28.....	Frozen.	Frozen.	3.2	3.2								
29.....			3.1	3.1								
30.....			3.0	3.0								
31.....			2.8									
Means			3.9	3.2								

## SUSQUEHANNA RIVER SYSTEM—SUSQUEHANNA RIVER (WEST BRANCH), WILLIAMSPORT, PA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	3.3	2.9	4.0	3.9	3.3	3.3	1.3	0.6	0.8	0.1	1.0	5.8
2.....	3.2	2.8	9.0	3.8	3.1	2.9	1.5	0.6	0.7	0.1	1.0	5.0
3.....	3.1	2.8	8.2	4.2	2.9	3.2	1.3	0.6	0.6	0.1	0.9	4.8
4.....	3.0	2.9	7.1	4.5	2.7	3.5	1.0	0.5	0.5	0.2	0.9	4.3
5.....	2.9	2.9	6.0	4.8	2.6	3.5	0.9	0.5	0.5	0.2	0.9	6.8
6.....	2.8	3.3	5.2	4.5	2.5	3.0	1.0	0.4	0.4	0.2	0.9	7.2
7.....	2.6	3.0	5.3	5.0	2.3	2.7	1.1	0.4	0.3	0.2	0.8	5.8
8.....	2.5	3.0	7.1	6.5	2.2	2.5	1.1	0.3	0.3	0.3	0.8	5.7
9.....	2.6	4.5	6.5	6.8	2.0	2.4	1.0	0.3	0.3	0.4	0.8	4.8
10.....	2.6	6.0	6.2	6.1	2.0	2.2	0.9	0.2	0.3	0.9	0.8	4.5
11.....	2.6	5.5	7.0	5.5	2.0	2.0	1.0	0.2	0.3	1.1	0.8	4.2
12.....	2.7	5.0	6.3	4.8	2.0	1.9	1.1	0.1	0.2	1.0	0.9	3.5
13.....	2.8	5.0	5.1	4.5	2.0	1.8	1.0	0.1	0.2	1.0	0.9	3.0
14.....	2.9	8.7	4.5	4.3	2.0	1.6	1.7	0.2	0.2	1.0	0.9	2.9
15.....	3.0	8.5	4.1	4.1	2.3	1.7	1.3	0.1	0.2	0.9	0.9	2.8
16.....	3.0	6.5	3.5	3.9	2.3	1.9	1.1	0.1	0.1	1.1	0.8	2.3
17.....	3.0	5.5	2.8	3.9	2.0	1.7	0.9	0.2	0.1	1.2	0.8	1.9
18.....	3.3	4.7	2.7	5.1	2.0	1.6	0.8	0.2	0.2	1.1	0.7	1.8
19.....	3.8	3.8	2.5	6.9	2.0	1.5	0.8	0.2	0.2	0.9	0.7	2.1
20.....	4.5	3.6	3.1	6.8	2.5	1.4	0.7	0.2	0.2	0.8	0.7	2.0
21.....	13.0	3.5	7.0	6.2	2.5	1.3	0.7	0.3	0.2	0.7	0.8	2.0
22.....	13.0	5.5	6.1	5.5	2.3	1.2	0.6	0.7	0.2	0.7	1.0	1.9
23.....	10.0	9.8	5.0	5.5	2.0	1.2	0.6	1.0	0.1	0.7	1.4	1.9
24.....	8.0	7.4	5.5	5.9	1.8	1.1	0.6	0.9	0.1	0.7	1.5	1.8
25.....	6.5	5.4	6.0	5.7	1.7	1.0	0.6	0.9	0.1	0.9	2.7	1.9
26.....	5.8	5.2	5.2	5.2	1.8	1.1	0.5	0.9	0.1	1.8	4.8	2.1
27.....	5.0	3.2	4.9	4.7	2.0	1.0	0.6	1.0	0.1	1.5	17.0	2.4
28.....	4.5	3.9	4.5	4.2	1.9	0.9	1.0	0.9	0.1	1.4	12.0	2.3
29.....	4.0		4.5	3.8	1.9	0.8	0.9	1.0	0.1	1.3	8.0	2.3
30.....	4.1		4.4	3.6	4.0	0.8	0.8	1.0	0.1	1.1	5.5	2.3
31.....	3.3		4.1		3.6		0.7	0.9		1.1		2.2
Means	4.4	4.8	5.3	5.0	2.3	1.9	0.9	0.5	0.3	0.8	2.4	3.4

a 11.0 during day.

## SUSQUEHANNA RIVER SYSTEM—SUSQUEHANNA RIVER (WEST BRANCH), WILLIAMSPORT, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	2.3	1.6	0.9	5.5	4.0	9.8	3.1	1.2	3.0	1.8	0.7	3.0
2.....	2.3	1.4	1.0	4.8	3.8	7.2	2.6	1.1	3.5	1.5	0.6	2.8
3.....	1.9	1.4	1.3	4.5	4.0	7.0	2.3	1.0	6.8	2.0	0.6	3.0
4.....	1.1	1.4	1.4	6.0	4.6	6.5	2.2	0.8	5.7	1.5	0.7	2.6
5.....	1.0	1.6	2.1	6.2	4.2	5.7	2.1	0.7	4.6	1.4	0.6	2.3
6.....	1.0	1.8	3.0	7.0	4.0	5.1	2.0	0.7	4.1	1.3	0.6	2.0
7.....	1.1	2.5	3.7	9.5	3.7	5.0	1.9	0.8	3.3	1.2	0.6	1.8
8.....	1.1	1.9	3.0	11.5	3.5	5.5	1.8	1.8	2.7	0.9	0.6	1.8
9.....	1.4	1.4	2.6	11.2	3.1	5.3	1.6	1.9	2.4	0.8	0.5	1.8
10.....	1.5	1.3	3.0	9.5	3.3	5.0	1.5	1.7	2.2	0.9	0.5	2.8
11.....	1.8	1.3	7.0	8.2	3.4	4.5	1.4	1.5	2.0	0.9	0.4	6.9
12.....	2.1	1.9	10.0	7.2	3.4	4.1	1.3	1.4	2.0	0.9	0.5	6.1
13.....	3.6	2.4	9.2	6.2	3.4	3.9	1.1	1.1	2.0	1.0	0.6	5.5
14.....	4.5	2.1	7.5	5.8	3.6	3.3	1.1	0.9	2.3	1.3	0.6	5.2
15.....	4.2	1.5	6.5	5.5	3.6	3.0	1.1	0.8	2.5	1.1	1.5	<sup>a</sup> 19.6
16.....	4.0	1.4	6.8	5.3	3.5	3.6	1.0	0.9	2.8	0.8	1.2	18.2
17.....	3.7	1.3	6.0	4.8	3.3	3.4	1.0	3.3	2.7	1.1	1.3	12.0
18.....	3.5	1.2	5.5	4.2	3.5	2.9	1.2	3.3	3.0	1.0	1.5	8.8
19.....	2.9	1.2	5.0	4.2	3.4	2.7	1.2	4.5	3.0	0.9	1.3	7.0
20.....	2.4	1.3	6.2	4.0	3.2	2.6	1.1	4.2	2.8	0.8	1.1	5.5
21.....	2.0	1.4	7.5	12.0	3.0	2.9	1.0	4.0	2.5	0.8	1.0	5.0
22.....	1.9	1.3	9.5	15.2	2.8	4.0	0.9	4.6	2.3	0.7	0.9	4.4
23.....	2.2	1.2	8.5	12.5	5.8	4.5	0.7	4.0	2.0	0.6	0.8	3.7
24.....	2.6	1.0	7.5	9.7	5.5	4.4	0.7	5.4	1.9	0.6	1.6	3.6
25.....	2.4	0.9	6.5	8.5	5.5	4.2	0.7	7.8	1.8	0.6	5.6	3.6
26.....	2.5	0.9	7.8	7.5	5.0	3.8	0.8	6.8	1.5	0.6	6.7	3.7
27.....	2.6	1.0	10.5	6.5	5.0	3.5	0.9	5.2	1.4	0.6	5.7	3.9
28.....	2.6	1.0	11.2	5.5	7.6	3.6	1.0	4.3	1.2	0.6	4.4	3.4
29.....	2.7		9.2	5.0	11.5	3.7	1.1	3.5	1.5	0.7	3.6	3.2
30.....	2.6		7.8	4.5	14.0	3.5	1.2	3.0	1.9	0.8	3.5	3.0
31.....	1.7		6.2		12.3		1.2	2.7		0.7		3.4
Means.	2.4	1.4	5.9	7.3	4.9	4.5	1.4	2.7	2.7	1.0	1.7	5.1
<b>1902</b>												
1.....	3.2	4.3	21.7	6.0	2.5	1.3	8.3	5.0	0.5	2.7	1.9	1.0
2.....	2.9	4.2	21.1	5.7	2.5	1.2	7.4	4.9	0.6	4.1	1.7	1.3
3.....	2.6	5.0	16.8	5.3	2.4	1.2	6.4	4.6	0.5	3.1	1.6	1.5
4.....	2.5	4.7	13.0	4.9	2.7	1.1	9.7	4.3	0.5	2.5	1.5	2.2
5.....	2.4	4.5	10.0	4.5	2.7	1.1	10.8	3.8	0.5	2.4	1.4	2.4
6.....	2.3	4.0	8.1	4.3	2.9	1.3	8.6	3.3	0.4	2.3	1.4	2.5
7.....	2.3	3.9	6.8	4.5	2.9	1.2	8.8	3.1	0.4	2.2	1.3	2.3
8.....	2.3	3.7	5.9	4.7	3.2	1.2	7.3	3.0	0.4	2.2	1.4	2.3
9.....	2.4	3.6	5.3	13.3	3.4	1.1	6.3	2.8	0.4	2.0	1.4	2.8
10.....	2.4	3.4	5.5	16.6	3.2	1.0	6.0	2.6	0.6	1.8	1.3	1.9
11.....	2.4	3.3	6.3	12.9	3.0	1.1	7.7	2.4	0.5	1.6	1.3	2.0
12.....	2.4	3.0	7.1	10.3	2.8	1.1	7.2	2.2	0.5	1.4	1.2	2.3
13.....	2.4	2.9	9.6	8.4	2.6	1.3	6.3	2.5	0.6	1.2	1.2	3.1
14.....	2.3	3.0	12.2	7.3	2.5	1.4	5.0	2.1	0.5	1.0	1.1	4.4
15.....	2.1	2.6	10.8	6.3	2.4	1.6	4.2	1.9	0.4	1.2	1.0	3.6
16.....	2.1	2.3	8.4	5.5	2.2	1.8	3.6	1.8	0.4	1.3	1.0	3.0
17.....	2.0	2.1	13.8	5.0	2.0	1.9	3.1	1.6	0.4	1.6	0.9	5.8
18.....	1.9	2.1	12.7	4.7	1.9	2.0	3.3	1.5	0.4	1.5	0.9	8.1
19.....	1.8	2.5	10.0	4.3	1.8	2.0	3.7	1.4	0.3	1.4	0.9	6.4
20.....	1.6	2.2	8.1	3.9	1.7	1.8	4.4	1.3	0.2	1.3	0.8	5.3
21.....	2.0	1.9	6.8	4.4	1.7	1.8	5.8	1.2	0.2	1.3	0.9	5.1
22.....	5.3	2.2	6.0	3.5	1.7	1.7	6.8	1.4	0.2	1.2	0.9	8.0
23.....	6.6	1.9	5.4	3.2	1.6	1.5	6.3	1.3	0.2	1.1	0.9	10.7
24.....	4.5	1.8	5.0	2.9	1.6	1.4	5.7	1.1	0.2	1.0	0.9	9.1
25.....	4.5	1.8	4.5	2.8	1.6	0.6	5.3	1.0	0.5	1.0	1.0	7.2
26.....	4.0	2.0	4.2	3.3	1.6	1.5	6.8	0.9	0.9	0.9	1.1	6.0
27.....	4.1	3.1	3.9	2.5	1.7	1.9	6.1	0.8	2.3	0.9	1.1	5.4
28.....	4.0	<sup>b</sup> 5.5	3.7	2.4	1.8	2.8	5.5	0.4	2.6	1.3	1.1	4.1
29.....	3.9		3.9	2.3	1.6	2.6	5.2	0.5	2.8	1.2	1.0	4.4
30.....	4.1		5.6	2.5	1.5	4.3	4.5	0.6	2.3	1.5	1.0	3.6
31.....	4.0		6.2		1.4		5.2	0.5		1.7		2.5
Means.	3.0	3.1	8.7	5.6	2.2	1.6	6.2	2.1	0.7	1.7	1.2	4.2

<sup>a</sup>20.7 at 2.15 p. m.<sup>b</sup>17.0 at 12 midnight.

## SUSQUEHANNA RIVER SYSTEM—SUSQUEHANNA RIVER (WEST BRANCH), WILLIAMSPORT, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	3.0	9.8	<sup>a</sup> 17.5	5.8	2.4	1.0	4.6	2.7	5.8	1.0	1.9	2.0
2.....	2.5	6.0	14.3	5.6	2.3	0.5	4.2	2.3	5.3	1.0	1.7	2.0
3.....	3.0	7.5	10.2	5.3	2.2	0.9	4.0	2.0	4.6	0.9	1.7	2.0
4.....	4.3	10.6	8.3	5.0	2.0	0.6	4.4	1.8	4.0	0.9	1.6	1.8
5.....	4.9	15.5	7.2	5.1	2.0	0.6	4.0	2.5	3.5	1.0	1.5	1.8
6.....	5.3	13.2	7.1	4.7	2.0	0.6	3.7	3.6	3.1	1.4	1.6	1.8
7.....	5.0	10.1	7.2	4.5	2.0	0.7	6.0	3.8	2.7	1.7	1.5	1.7
8.....	4.4	7.8	7.6	4.5	1.7	1.0	5.3	4.0	2.5	2.0	1.5	1.7
9.....	3.7	6.7	11.2	5.0	1.6	1.4	4.2	3.5	2.4	5.9	1.5	1.6
10.....	2.2	5.8	12.7	5.4	1.4	1.4	3.5	2.9	2.6	7.8	1.4	1.7
11.....	2.2	5.1	11.0	5.6	1.4	2.1	3.0	2.6	2.8	6.2	1.4	1.7
12.....	4.3	5.2	11.1	5.3	1.4	2.2	3.0	2.4	3.4	5.5	1.4	1.4
13.....	4.2	6.2	10.6	5.8	1.3	3.7	3.0	2.2	3.0	4.6	1.3	1.3
14.....	4.2	6.7	8.9	6.1	1.3	3.4	2.7	2.0	2.5	4.0	1.2	1.9
15.....	4.2	6.4	7.8	9.6	1.3	3.6	2.4	1.7	2.3	3.6	1.2	1.5
16.....	4.2	6.3	6.9	11.6	1.2	4.0	2.2	1.6	2.0	3.3	1.3	1.0
17.....	4.1	6.3	6.2	10.7	1.2	3.7	2.0	1.8	1.9	3.0	2.8	1.0
18.....	3.7	6.0	5.7	9.1	1.2	3.4	2.0	1.8	2.5	4.2	12.0	1.0
19.....	3.7	4.4	5.3	7.6	1.2	2.9	5.4	1.6	2.6	5.3	9.2	1.0
20.....	3.6	4.0	4.7	6.5	1.2	2.6	8.0	1.5	2.5	5.0	7.4	1.0
21.....	3.7	4.1	4.4	5.7	1.2	2.5	6.2	1.6	2.3	4.6	5.5	1.6
22.....	3.4	4.0	4.6	5.1	1.1	2.5	5.5	2.2	2.0	4.0	4.9	2.1
23.....	3.2	4.5	5.3	4.6	1.1	2.6	5.0	1.8	1.8	3.6	4.4	2.0
24.....	3.1	3.8	13.3	4.2	1.0	4.1	4.2	1.5	1.6	3.2	4.1	1.9
25.....	3.1	3.9	12.2	4.0	0.9	6.1	3.6	1.5	1.5	3.0	3.8	1.8
26.....	3.0	3.8	9.5	3.5	0.9	9.2	3.2	1.4	1.5	2.8	3.4	1.7
27.....	3.0	3.6	7.7	3.4	1.0	7.0	2.7	1.5	1.3	2.6	3.0	2.0
28.....	3.0	4.7	6.5	3.1	1.0	5.4	2.3	1.8	1.2	2.3	2.5	2.0
29.....	2.8		5.6	2.9	1.1	4.5	2.1	3.9	1.2	2.2	2.1	2.4
30.....	3.0		5.0	2.7	1.1	5.2	2.5	7.2	1.1	2.0	1.7	2.3
31.....	11.0		4.9		1.1		2.8	6.5		2.0		2.4
Means.	3.8	6.5	8.4	5.6	1.4	3.0	3.8	2.6	2.6	3.2	3.0	1.7
<b>1904</b>												
1.....	2.2	3.8	2.7	6.2	7.8	3.6	2.3	1.0	0.4	0.8	1.0	0.6
2.....	2.2	3.4	7.0	<sup>b</sup> 16.8	7.0	3.7	2.1	0.9	0.4	1.0	1.0	0.5
3.....	2.0	3.0	7.5	13.6	6.2	3.7	1.9	0.9	0.4	1.0	1.0	0.5
4.....	2.0	2.8	19.0	9.8	5.5	3.5	1.7	0.9	0.3	0.9	1.0	0.4
5.....	1.8	3.0	16.5	8.0	5.0	6.1	1.5	0.8	0.3	0.8	0.9	0.4
6.....	1.8	2.4	9.2	6.8	4.5	4.5	1.5	0.7	0.3	0.8	0.9	0.4
7.....	1.7	2.6	7.4	6.4	4.2	3.7	1.7	0.7	0.2	0.7	0.8	0.4
8.....	1.7	5.0	17.4	6.0	3.9	3.4	1.8	0.7	0.2	0.7	0.7	0.4
9.....	1.7	10.5	13.5	6.0	3.6	3.2	3.4	0.6	0.2	0.6	0.6	0.4
10.....	1.7	7.6	9.8	8.8	3.3	3.2	4.4	0.5	0.2	0.6	0.6	0.4
11.....	1.7	6.0	7.6	9.2	3.2	3.3	8.1	0.5	0.2	0.6	0.7	0.4
12.....	1.7	5.2	6.5	7.9	3.0	3.3	6.7	0.4	0.5	0.5	0.7	0.4
13.....	1.7	4.3	5.8	7.2	2.8	2.9	5.4	0.4	0.6	0.7	0.7	0.3
14.....	1.7	3.8	5.3	6.6	2.5	2.7	4.6	0.5	0.5	1.2	0.8	0.3
15.....	1.6	4.0	5.0	5.8	3.0	2.4	3.8	0.5	0.5	1.5	0.8	0.3
16.....	1.6	3.8	4.4	5.2	3.4	2.6	3.4	0.3	0.6	1.4	0.7	0.3
17.....	1.5	3.6	4.1	5.2	3.3	3.1	3.0	0.3	0.5	1.3	0.7	0.3
18.....	1.5	3.5	3.8	5.1	3.2	2.8	2.5	0.3	0.5	1.2	0.7	0.2
19.....	1.5	3.3	4.0	5.0	4.7	2.6	2.1	0.3	0.4	1.1	0.7	0.2
20.....	1.5	3.0	4.5	4.5	7.7	2.3	2.0	0.4	0.3	1.0	0.7	0.2
21.....	1.4	2.9	6.5	4.2	7.2	2.3	1.7	0.5	0.3	1.1	0.6	0.2
22.....	1.5	2.8	6.7	3.9	6.0	3.0	1.5	0.5	0.2	1.5	0.6	0.2
23.....	<sup>c</sup> 7.7	2.7	6.6	3.6	5.2	3.7	1.3	0.9	0.2	1.7	0.6	0.2
24.....	13.3	3.7	9.9	3.3	4.7	4.0	1.3	1.0	0.2	1.6	0.7	0.3
25.....	9.8	4.2	10.3	3.2	4.4	3.2	1.2	1.2	0.2	1.5	0.6	0.3
26.....	7.0	3.8	11.3	3.6	4.2	2.8	1.1	1.0	0.3	1.5	0.6	0.3
27.....	5.4	3.0	12.6	4.3	4.0	2.3	1.1	0.9	0.6	1.4	0.6	0.4
28.....	4.9	2.7	10.6	5.1	3.8	2.1	1.1	0.7	1.0	1.3	0.6	1.8
29.....	3.5	2.5	8.0	6.8	3.5	1.9	1.1	0.6	1.0	1.3	0.5	5.4
30.....	3.2		6.9	8.4	3.3	1.7	1.0	0.6	1.1	1.2	0.5	5.5
31.....	3.6		6.0		3.3		1.0	0.5		1.1		4.4
Means.	3.1	3.9	8.3	6.6	4.4	3.1	2.5	0.6	0.4	1.1	0.7	0.8

<sup>a</sup> Maximum stage, 17.7.<sup>b</sup> 17.2 at 10.30 a. m.<sup>c</sup> 16.0 from 1 to 4 p. m.

## SUSQUEHANNA RIVER SYSTEM—JUNIATA RIVER, HUNTINGDON, PA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.0	Frozen.	4.5	3.8	3.6	3.0	2.9	2.9	2.9	2.9	2.9	3.8
2	3.0		6.0	3.8	3.6	3.3	2.9	2.9	2.9	2.9	2.9	3.6
3	3.0		4.5	3.8	3.5	3.9	2.9	2.9	2.9	2.9	2.9	3.6
4	3.0		4.5	3.8	3.3	3.5	2.9	2.9	2.9	2.9	2.9	3.6
5	3.0		4.3	3.8	3.2	3.3	2.9	2.9	2.9	2.9	2.9	6.6
6	3.0		4.3	3.8	3.2	3.1	2.9	2.9	2.9	2.9	2.9	4.6
7	3.0		5.0	3.8	3.1	3.0	2.9	2.9	2.9	2.9	2.9	4.6
8	3.0	4.5	4.7	3.8	3.0	3.0	2.9	2.9	2.9	2.9	2.9	4.0
9	3.0	5.0	4.5	3.8	3.0	3.0	2.9	2.9	2.9	2.9	2.9	4.0
10	3.0	4.8	4.5	3.8	3.0	3.0	2.9	2.9	2.9	2.9	2.9	3.8
11	3.0	4.6	4.3	3.8	3.0	3.0	2.9	2.9	2.9	2.9	2.9	3.8
12	3.0	4.5	4.0	3.8	3.0	3.0	2.9	2.9	2.9	2.9	2.9	3.8
13	3.0	6.0	4.0	3.8	3.0	3.0	2.9	2.9	2.9	2.9	2.9	3.6
14	3.0	5.5	4.0	3.8	3.0	3.0	2.9	2.9	2.9	2.9	2.9	3.2
15	3.0	5.5	4.0	3.8	3.0	3.0	2.9	2.9	2.9	2.9	2.9	Frozen.
16	3.0	4.5	4.0	3.8	3.0	3.0	2.9	2.9	2.9	2.9	2.9	
17	3.0	4.5	4.0	3.8	3.0	3.0	2.9	2.9	2.9	2.9	2.9	
18	3.0	4.3	Frozen.	3.8	3.0	3.0	2.9	2.9	2.9	2.9	2.9	
19	3.0	Frozen.	3.8	4.8	3.6	3.0	2.9	2.9	2.9	2.9	2.9	3.0
20	3.0		4.5	4.3	3.6	3.0	2.9	2.9	2.9	2.9	2.9	3.0
21	8.0		5.3	4.1	3.6	3.0	2.9	2.9	2.9	2.9	2.9	3.0
22	6.5	6.3	4.3	4.0	3.2	3.0	2.9	2.9	2.9	2.9	2.9	3.0
23	5.0	5.0	4.8	4.0	3.2	3.0	2.9	2.9	2.9	2.9	2.9	3.0
24	4.8	4.5	4.8	4.0	3.1	3.0	2.9	2.9	2.9	2.9	2.9	3.0
25	4.6	4.2	4.5	4.0	3.0	3.0	2.9	2.9	2.9	2.9	2.9	3.0
26	4.6	Frozen.	4.3	4.0	3.0	3.0	2.9	2.9	2.9	2.9	8.5	3.0
27	4.4		4.3	4.0	3.0	2.9	2.9	2.9	2.9	2.9	6.5	3.0
28	Frozen.		4.1	4.0	3.0	2.9	2.9	2.9	2.9	2.9	4.5	3.0
29			4.0	4.0	3.0	2.9	2.9	2.9	2.9	2.9	4.2	3.0
30			4.0	3.8	3.0	2.9	2.9	2.9	2.9	2.9	4.0	3.0
31			3.8		3.0		2.9	2.9		2.9		3.0
Means.	3.6	4.9	4.4	3.9	3.2	3.1	2.9	2.9	2.9	2.9	3.3	3.5
1901												
1	3.0	Frozen.	Frozen.	4.0	4.0	5.3	3.8	3.0	5.7	3.0	3.0	3.0
2	3.0			4.0	4.0	5.3	3.8	3.0	5.4	3.0	3.0	3.0
3	3.0		4.3	4.0	4.0	4.7	3.8	3.0	5.0	3.0	3.0	3.0
4	Frozen.		4.3	6.0	4.0	4.7	3.8	3.0	4.3	3.0	3.0	3.0
5			4.3	6.3	4.0	4.3	3.8	3.0	4.0	3.0	3.0	3.0
6			Frozen.	7.0	3.8	4.0	3.6	3.0	4.0	3.0	3.0	3.0
7				7.3	3.8	4.0	3.6	6.4	4.0	3.0	3.0	3.0
8				6.8	3.8	4.3	3.6	4.0	3.8	3.0	3.0	3.0
9	3.0		4.0	6.3	3.8	4.0	3.4	3.5	3.5	3.0	3.0	3.0
10	3.0		7.0	6.3	3.8	4.0	3.2	3.5	3.2	3.0	3.0	5.3
11	3.0		9.8	6.3	3.8	4.0	3.2	3.0	4.0	3.0	3.0	4.3
12	4.3		6.8	5.8	3.8	4.0	3.2	3.0	3.5	3.0	3.0	4.0
13	4.0		5.8	5.4	3.8	3.8	3.2	3.0	4.0	3.0	3.0	4.0
14	4.0		5.6	4.8	3.8	3.8	3.0	3.0	4.0	3.0	3.0	4.0
15	3.8		5.3	4.6	3.8	3.8	3.0	3.0	3.8	3.0	3.0	14.0
16	3.8		5.0	4.4	3.8	3.8	5.0	3.0	3.8	3.0	3.0	12.0
17	3.8		5.0	4.2	3.8	3.8	4.0	3.0	3.6	3.0	3.0	8.0
18	3.8		4.5	4.2	3.8	3.8	4.2	3.5	3.6	3.0	3.0	6.0
19	3.8		4.5	4.0	3.8	3.8	4.0	4.0	3.4	3.0	3.0	5.5
20	Frozen.		4.5	5.5	3.8	3.8	3.8	3.5	3.4	3.0	3.0	4.0
21			6.0	8.5	3.8	4.8	3.6	3.0	3.2	3.0	3.0	4.0
22			5.3	8.0	3.8	4.3	3.6	3.0	3.2	3.0	3.0	Frozen.
23			5.0	6.5	4.0	5.0	3.6	3.0	3.0	3.0	3.0	
24			4.5	6.0	4.8	4.5	3.2	5.3	3.0	3.0	3.0	
25			4.5	5.5	5.6	4.0	3.0	4.3	3.0	3.0	3.0	
26			4.5	5.0	5.6	4.0	3.0	4.0	3.0	3.0	3.0	
27			6.0	4.7	6.6	4.0	3.0	3.5	3.0	3.0	3.0	
28			5.5	4.3	6.7	4.0	3.0	3.0	3.0	3.0	3.0	
29			5.3	4.3	6.7	4.0	3.0	3.0	3.0	3.0	3.0	4.0
30			4.8	4.0	7.7	4.0	3.0	3.0	3.0	3.0	3.0	4.7
31			4.5		6.0		3.0	6.7		3.0		4.3
Means.			5.3	5.5	4.5	4.2	3.5	3.5	3.7	3.0	3.0	4.8

## SUSQUEHANNA RIVER SYSTEM—JUNIATA RIVER, HUNTINGDON, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	4.0	Frozen.	13.0	5.0	4.0	3.1	5.5	3.5	3.0	3.4	3.1	3.0
2.....	4.0	.....	9.0	4.8	3.8	3.1	4.5	4.3	3.0	3.3	3.1	3.1
3.....	4.0	.....	7.5	4.6	3.8	3.1	4.2	3.6	3.0	3.2	3.1	4.0
4.....	4.0	.....	6.0	4.6	3.8	3.1	5.4	3.5	3.0	3.0	3.1	4.0
5.....	4.0	.....	5.0	4.4	3.6	3.1	5.0	3.4	3.0	3.0	3.1	3.8
6.....	4.0	.....	5.0	4.4	3.6	3.1	4.6	3.4	3.0	3.3	3.0	3.7
7.....	4.0	.....	4.8	5.4	3.6	3.0	4.4	3.4	3.0	3.1	3.0	3.6
8.....	4.0	.....	4.8	8.0	3.6	3.0	4.2	3.4	3.0	3.0	3.0	3.7
9.....	4.0	.....	5.0	12.0	3.6	3.0	4.2	3.3	3.0	3.0	3.0	3.6
10.....	4.0	.....	5.0	8.5	3.6	3.0	4.2	3.3	3.0	3.0	3.0	Frozen.
11.....	4.0	.....	6.0	7.0	3.6	3.0	4.0	3.3	3.0	3.0	3.0	.....
12.....	4.0	.....	6.5	6.3	3.6	3.3	3.9	3.4	3.0	4.1	3.0	6.6
13.....	4.0	.....	9.0	6.0	3.6	3.2	3.7	3.3	3.0	4.1	3.0	5.1
14.....	4.0	.....	7.3	5.5	3.6	3.2	3.6	3.2	2.9	3.7	3.0	4.7
15.....	4.0	.....	6.3	5.0	3.6	3.2	3.5	3.1	2.9	3.6	3.0	4.3
16.....	4.0	.....	6.3	4.8	3.6	3.2	3.4	3.1	2.9	3.5	3.0	4.4
17.....	4.0	.....	6.0	4.6	3.6	3.2	3.4	3.0	2.9	3.4	3.0	5.9
18.....	4.0	.....	6.0	4.4	3.4	3.2	3.4	3.0	2.9	3.3	3.0	5.0
19.....	4.0	.....	6.0	4.4	3.4	3.2	3.4	3.0	2.9	3.2	3.0	4.6
20.....	4.0	.....	5.5	4.0	3.4	3.2	3.6	3.0	2.9	3.2	3.0	4.7
21.....	4.0	.....	5.0	4.0	3.4	3.1	3.6	3.0	2.9	3.1	3.0	5.5
22.....	6.3	.....	5.0	4.0	3.4	3.1	3.4	3.0	2.9	3.1	3.0	7.9
23.....	5.0	.....	5.0	4.0	3.4	3.1	3.4	3.0	2.9	3.1	3.0	6.6
24.....	4.0	.....	4.8	4.0	3.3	3.1	3.4	3.0	2.9	3.1	3.0	5.6
25.....	4.0	.....	4.8	3.8	3.2	3.0	3.4	3.0	2.9	3.1	3.0	5.2
26.....	5.5	5.0	4.8	3.8	3.2	4.8	3.4	3.0	3.2	3.1	3.0	4.8
27.....	5.0	7.3	4.6	3.8	3.2	3.8	3.3	3.0	3.2	3.1	3.3	4.6
28.....	4.5	9.7	4.6	3.8	3.2	3.5	3.3	3.0	3.2	4.7	3.3	Frozen.
29.....	4.5	.....	4.6	4.0	3.2	3.5	3.5	3.0	3.2	3.7	3.2	.....
30.....	4.5	.....	4.6	4.2	3.2	4.8	4.5	3.0	3.0	3.3	3.1	.....
31.....	4.5	.....	5.0	.....	3.2	.....	4.0	3.0	.....	3.2	.....	4.0
Means.....	4.3	.....	5.9	5.1	3.5	3.3	3.9	3.2	3.0	3.3	3.0	4.7
<b>1903</b>												
1.....	3.9	5.5	8.7	5.0	3.8	3.4	4.6	3.3	4.8	3.0	3.1	Frozen.
2.....	Frozen.	5.0	6.6	4.6	3.7	3.4	4.1	3.3	4.4	3.0	3.1	.....
3.....	4.8	7.3	5.9	4.6	3.7	3.4	4.1	3.3	4.2	3.0	3.1	.....
4.....	5.8	<sup>a</sup> 9.3	5.4	4.5	3.8	3.3	4.1	3.3	4.0	3.0	3.1	.....
5.....	5.0	9.0	5.1	4.4	3.7	3.3	5.0	3.4	4.0	3.0	3.1	.....
6.....	4.7	6.7	5.1	4.2	3.7	3.2	8.2	3.4	4.0	4.0	3.1	3.3
7.....	4.5	5.9	5.0	4.1	3.6	3.2	5.5	4.1	4.0	3.5	3.1	3.3
8.....	4.4	5.4	5.1	4.5	3.6	4.5	4.6	3.6	3.8	3.5	3.1	3.3
9.....	Frozen.	5.0	6.5	5.1	3.5	4.0	4.4	3.4	4.4	5.0	3.1	3.2
10.....	Frozen.	4.8	5.7	4.5	3.5	4.5	4.2	3.4	4.0	4.2	3.1	3.2
11.....	.....	4.7	5.5	4.4	3.4	4.1	4.0	3.4	4.2	4.0	3.1	3.2
12.....	.....	5.7	5.2	4.6	3.4	4.4	4.1	3.3	4.0	4.0	3.3	3.2
13.....	.....	5.5	5.0	4.7	3.4	4.1	3.9	3.3	3.9	3.9	3.3	3.2
14.....	.....	5.0	4.7	5.6	3.4	3.9	3.9	3.2	3.8	3.8	3.3	3.2
15.....	.....	4.9	4.5	7.2	3.4	4.1	3.9	3.2	3.5	3.6	3.2	Frozen.
16.....	.....	7.0	4.5	7.6	3.4	4.0	3.8	3.2	3.5	3.6	3.2	.....
17.....	.....	5.9	4.4	6.5	3.4	3.9	3.6	3.1	3.6	3.8	4.3	.....
18.....	.....	5.5	4.3	5.8	3.4	3.7	3.6	3.1	3.9	4.6	4.2	.....
19.....	Frozen.	.....	4.2	5.3	3.4	3.6	6.1	3.2	3.7	4.3	4.0	.....
20.....	.....	4.0	5.0	.....	3.4	3.7	4.8	3.5	3.5	4.3	3.8	.....
21.....	.....	4.0	4.8	.....	3.3	4.2	4.6	3.3	3.4	4.0	3.7	.....
22.....	.....	4.5	4.6	.....	3.3	3.9	4.4	3.2	3.3	3.9	3.7	.....
23.....	.....	5.3	4.4	.....	3.3	4.1	4.2	3.1	3.3	3.7	3.7	.....
24.....	.....	4.4	8.4	4.3	3.5	6.0	4.0	3.0	3.2	3.6	3.7	.....
25.....	.....	4.3	6.5	4.2	3.8	5.2	3.9	3.0	3.2	3.4	3.6	3.7
26.....	.....	4.3	5.6	4.1	3.5	4.7	3.8	3.2	3.2	3.3	3.5	3.8
27.....	.....	4.3	5.2	4.1	3.5	4.4	3.7	3.1	3.2	3.3	Frozen.	Frozen.
28.....	.....	8.9	4.9	4.0	3.5	4.2	3.6	<sup>b</sup> 6.5	3.2	3.2	.....	.....
29.....	4.4	.....	4.6	4.0	3.6	4.2	3.5	8.0	3.1	3.2	.....	.....
30.....	5.9	.....	4.5	3.9	3.5	6.0	3.4	5.6	3.0	3.2	.....	.....
31.....	6.3	.....	6.0	.....	3.5	.....	3.3	4.8	.....	3.1	.....	.....
Means.....	.....	5.8	5.3	4.8	3.5	4.1	4.3	3.7	3.7	3.6	3.4	.....

<sup>a</sup> Maximum stage, 11.0.<sup>b</sup> 8.9 at 3 p. m.



## SUSQUEHANNA RIVER SYSTEM—JUNIATA RIVER, HUNTINGDON, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	Frozen.	Frozen.	7.4	7.8	5.1	4.0	4.0	3.4	3.1	2.9	2.9	2.9
2.....			5.7	8.5	4.8	4.0	3.7	4.1	3.1	2.9	2.9	2.9
3.....			6.0	6.5	4.6	4.0	3.6	3.9	3.1	2.9	2.9	2.9
4.....			7.7	5.7	4.5	3.9	3.5	3.5	3.1	2.9	2.9	2.9
5.....			5.4	5.2	4.2	5.0	3.4	3.4	3.1	2.9	2.9	2.9
6.....			4.8	4.9	4.0	4.1	3.6	3.5	3.0	2.9	2.9	Frozen.
7.....		5.0	4.6	4.8	4.0	4.0	4.5	3.4	3.0	3.0	2.9	2.9
8.....		8.1	8.2	4.6	3.9	3.8	6.6	3.4	3.0	2.9	2.9	2.9
9.....		5.4	6.2	5.3	3.9	3.7	5.5	3.3	3.0	3.0	2.9	2.9
10.....		4.9	5.6	5.3	3.8	4.7	7.7	3.3	3.1	3.0	2.9	Frozen.
11.....		4.6	5.2	5.0	3.8	4.0	6.2	3.3	3.1	3.0	2.9	.....
12.....		4.4	5.2	4.9	3.7	3.9	5.3	3.3	3.0	2.9	3.0	.....
13.....		Frozen.	4.7	4.7	3.7	3.7	4.9	3.3	3.0	3.0	2.9	.....
14.....			4.6	4.6	3.7	3.6	4.5	3.2	3.0	3.0	2.9	.....
15.....			4.5	4.5	3.8	3.6	4.3	3.2	3.0	3.0	2.9	.....
16.....			4.3	4.4	3.8	4.1	4.1	3.2	3.0	3.0	2.9	.....
17.....			4.1	4.3	3.7	3.7	4.0	3.3	3.0	3.0	2.9	.....
18.....			4.4	4.2	3.7	3.5	3.9	3.5	3.0	3.0	2.9	.....
19.....			4.3	4.1	7.1	3.5	3.8	3.2	3.0	3.0	2.9	.....
20.....			5.1	4.1	5.4	3.7	3.9	3.4	3.0	3.0	2.9	.....
21.....			5.1	4.0	4.9	4.6	3.7	3.4	3.0	3.0	2.9	.....
22.....			4.9	4.0	4.6	4.3	3.7	3.3	3.0	3.2	2.9	.....
23.....	7.3		7.5	3.9	4.4	3.9	3.6	3.3	3.0	3.0	2.9	.....
24.....	6.0	5.5	6.6	3.9	4.3	3.6	3.8	3.2	3.0	3.0	2.9	.....
25.....	5.1	5.0	5.8	3.9	4.2	3.5	3.7	3.2	3.0	3.0	2.9	.....
26.....	4.7	4.2	5.8	3.9	4.0	3.5	3.7	3.1	3.0	2.9	2.9	.....
27.....	Frozen.	4.0	5.5	4.1	4.0	3.4	3.6	3.1	3.0	2.9	2.9	.....
28.....		3.7	5.1	5.1	3.9	3.4	3.5	3.1	3.0	2.9	2.9	.....
29.....		3.8	4.8	5.9	3.8	3.4	3.5	3.1	3.0	2.9	2.9	.....
30.....			4.6	5.5	3.7	3.4	3.5	3.1	3.0	2.9	2.9	.....
31.....			4.5		4.5		3.4	3.1		2.9		.....
Means.....			5.4	4.9	4.2	3.8	4.2	3.3	3.0	3.0	2.9	.....

## SUSQUEHANNA RIVER SYSTEM—JUNIATA RIVER, MIFFLIN, PA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900												
1.....	Frozen.	Frozen.	7.0	5.0	4.0	3.5	4.0	2.5	3.0	2.0	2.5	7.0
2.....			9.0	5.0	4.0	3.5	4.0	2.5	3.0	2.0	2.5	6.0
3.....			8.0	5.0	4.0	3.5	4.0	2.5	3.0	2.0	2.5	5.0
4.....			7.0	4.5	3.5	3.5	4.0	2.5	2.5	2.0	2.5	4.0
5.....			6.0	4.5	3.5	3.5	4.0	2.5	2.5	2.0	2.5	6.0
6.....			5.5	4.5	3.5	3.5	4.0	2.5	2.5	2.0	2.5	7.0
7.....			6.0	4.5	3.5	3.5	4.5	2.5	2.5	2.0	2.5	8.0
8.....			5.5	4.5	3.5	4.0	4.0	2.5	2.5	2.0	2.5	8.0
9.....		6.0	5.5	4.5	3.5	4.0	4.0	2.5	2.5	2.0	2.5	7.0
10.....		7.0	5.5	4.5	3.5	3.5	4.0	2.5	2.5	2.0	2.5	6.0
11.....		7.0	5.5	4.5	3.5	3.5	4.0	2.5	2.5	2.0	2.5	6.0
12.....		6.5	5.5	4.0	3.5	3.5	4.0	2.5	2.5	2.0	2.5	6.0
13.....		6.0	5.5	4.0	4.0	3.5	4.0	2.5	2.0	2.0	2.5	6.0
14.....		9.0	5.5	4.0	4.0	3.5	3.5	2.5	2.0	2.5	2.5	5.0
15.....		9.0	5.5	4.0	4.0	4.5	3.0	2.5	2.0	4.0	2.5	5.0
16.....		8.0	6.0	4.0	4.0	4.5	3.0	2.5	2.0	4.0	2.5	5.0
17.....		7.0	6.0	4.0	4.0	4.5	3.0	2.5	2.0	3.5	2.5	Frozen.
18.....		6.0	6.5	4.5	4.0	4.5	3.0	2.5	2.0	3.0	2.5	.....
19.....		6.0	7.0	4.5	3.5	4.0	2.5	2.5	2.0	3.0	2.5	.....
20.....	11.0	6.0	6.5	4.5	3.5	4.5	2.5	2.5	2.0	3.0	2.5	.....
21.....	10.0	6.0	6.5	4.5	4.0	4.0	2.5	2.5	2.0	3.0	2.5	.....
22.....	9.0	8.5	6.5	4.5	4.0	4.0	2.5	2.5	2.0	3.0	2.5	.....
23.....	8.0	12.0	6.5	4.5	3.5	4.0	2.5	2.5	2.0	3.0	2.5	.....
24.....	7.0	10.0	6.0	4.0	3.5	3.5	2.5	3.0	2.0	3.0	2.5	.....
25.....	6.0	9.0	6.0	4.0	3.5	3.5	2.5	3.0	2.0	3.0	3.5	.....
26.....	5.0	8.0	6.0	4.0	3.5	3.5	2.5	3.0	2.0	3.0	4.5	.....
27.....	5.0	7.0	6.0	4.0	3.5	4.0	3.0	3.5	2.0	3.0	6.0	.....
28.....	5.0	6.0	6.0	4.0	3.5	4.0	2.5	4.0	2.0	2.5	10.0	.....
29.....	5.0		5.5	4.0	3.5	4.0	2.5	4.0	2.0	2.5	9.0	.....
30.....	5.0		5.5	4.0	3.5	4.0	2.5	4.0	2.0	2.5	7.0	.....
31.....	Frozen.		5.0		3.5		2.5	3.5		2.5		.....
Means.....		7.5	6.1	4.3	3.7	3.8	3.3	2.8	2.3	2.6	3.3	6.1

\*9.0 during night.

## DESCRIPTION OF RIVER GAGES, ETC.

## SUSQUEHANNA RIVER SYSTEM—JUNIATA RIVER, MIFFLIN, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	5.0	Frozen.	Frozen.	5.0	6.0	9.0	5.0	5.0	8.0	5.0	3.0	5.0
2.....	5.0			5.0	6.0	8.0	5.0	5.0	8.0	5.0	3.0	5.0
3.....	5.0			5.0	6.0	7.0	5.0	5.0	7.0	5.0	3.0	5.0
4.....	Frozen.			5.0	5.0	7.0	5.0	5.0	6.0	5.0	3.0	Frozen.
5.....				8.0	5.0	7.0	5.0	5.0	6.0	5.0	3.0	
6.....				10.0	5.0	6.0	5.0	4.0	5.0	5.0	3.0	
7.....				12.0	5.0	6.0	5.0	4.0	5.0	5.0	3.0	
8.....				11.0	5.0	6.0	5.0	4.0	5.0	5.0	3.0	
9.....			7.0	10.0	5.0	6.0	4.0	4.0	5.0	5.0	3.0	
10.....			10.0	9.0	5.0	6.0	4.0	4.0	5.0	5.0	3.0	
11.....	4.5		13.0	8.0	5.0	6.0	4.0	5.0	5.0	5.0	3.0	8.0
12.....	5.0		11.0	7.0	5.0	6.0	4.0	6.0	5.0	5.0	3.0	7.0
13.....	6.0		10.0	7.0	5.0	5.0	4.5	6.0	5.0	5.0	3.0	6.0
14.....	6.0		8.0	7.0	5.0	5.0	5.0	5.0	5.0	5.0	3.0	8.0
15.....	5.0		7.0	7.0	5.0	5.0	5.0	5.0	5.0	5.0	3.0	18.0
16.....	4.5		6.0	7.0	5.0	6.0	6.0	5.0	6.0	4.0	3.0	15.0
17.....	4.0		6.0	7.0	5.0	6.0	6.0	4.0	6.0	4.0	3.0	13.0
18.....	4.0		6.0	7.0	5.0	6.0	7.0	4.0	6.0	4.0	3.0	10.0
19.....	4.0		6.0	7.0	7.0	6.0	8.0	5.0	6.0	4.0	3.0	9.0
20.....	4.0		5.0	8.0	7.0	6.0	8.0	6.0	6.0	4.0	3.0	8.0
21.....	4.0		6.0	10.0	6.0	7.0	7.0	5.0	6.0	4.0	3.0	7.0
22.....	4.0		5.0	12.0	6.0	7.0	7.0	5.0	5.0	4.0	3.0	6.0
23.....	4.0		5.0	11.0	7.0	7.0	7.0	6.0	5.0	4.0	3.0	6.0
24.....	4.0		5.0	10.0	8.0	8.0	6.0	7.0	5.0	4.0	3.0	6.0
25.....	4.0		5.0	9.0	8.0	8.0	6.0	8.0	5.0	3.0	4.0	6.0
26.....	4.0		5.0	8.0	9.0	7.0	6.0	8.0	5.0	3.0	5.0	6.0
27.....	4.0		5.0	7.0	9.0	6.0	5.0	8.0	5.0	3.0	6.0	6.0
28.....	Frozen.		5.0	7.0	10.0	5.0	5.0	8.0	5.0	3.0	6.0	6.0
29.....			5.0	7.0	12.0	5.0	5.0	8.0	5.0	3.0	5.0	10.0
30.....			5.0	6.0	11.0	5.0	5.0	9.0	5.0	3.0	5.0	8.0
31.....			5.0		10.0		5.0	9.0		3.0		7.0
<b>Means.</b>	<b>4.5</b>		<b>6.6</b>	<b>8.0</b>	<b>6.5</b>	<b>6.3</b>	<b>5.5</b>	<b>5.7</b>	<b>5.5</b>	<b>4.3</b>	<b>3.4</b>	<b>8.0</b>
<b>1902</b>												
1.....	7.0	7.0	23.0	7.0	5.0	4.0	6.5	6.0	3.5	3.5	4.0	4.0
2.....	6.0	7.0	17.0	7.0	5.0	4.0	6.5	6.0	3.5	3.5	3.5	4.5
3.....	6.0	7.0	13.5	7.0	5.0	4.0	6.0	6.0	3.5	3.5	3.5	4.5
4.....	6.0	7.0	10.0	6.0	5.0	4.0	6.0	6.0	3.5	3.5	3.5	5.0
5.....	6.0	7.0	8.0	6.0	5.0	4.0	6.5	6.0	3.5	3.5	3.5	5.0
6.....	6.0	7.0	7.0	6.0	5.0	4.0	6.5	5.5	3.5	3.5	3.5	5.0
7.....	6.0	7.0	7.0	6.0	5.0	4.0	6.0	5.5	3.5	3.5	3.5	4.5
8.....	6.0	7.0	7.0	7.0	4.5	4.0	6.0	5.5	3.5	3.5	3.5	4.5
9.....	6.0	7.0	6.0	18.0	4.5	4.0	5.5	5.5	3.5	3.5	3.5	4.5
10.....	6.0	6.0	6.0	17.0	4.5	4.0	5.5	5.5	3.5	3.5	3.5	4.5
11.....	6.0	Frozen.	6.0	11.5	4.5	4.0	5.5	5.5	3.5	3.5	3.5	4.5
12.....	6.0		8.0	10.0	4.5	4.0	5.5	5.5	3.5	3.5	3.5	5.0
13.....	6.0		10.0	9.0	4.5	4.0	5.5	5.5	3.5	4.0	3.5	5.5
14.....	6.0		12.0	7.0	4.5	4.0	5.0	5.5	3.5	4.5	3.5	5.5
15.....	6.0		10.0	6.5	4.5	4.0	4.5	5.0	3.0	4.0	3.5	6.5
16.....	6.0		12.0	6.5	4.5	4.5	4.0	5.0	3.0	4.0	3.5	7.0
17.....	6.0		13.0	6.5	4.5	4.5	4.0	5.0	3.0	4.0	3.5	8.0
18.....	6.0		12.5	6.0	4.5	4.0	4.0	5.0	2.5	4.0	3.5	7.5
19.....	6.0		10.0	6.0	4.0	4.0	4.0	5.0	2.5	4.0	3.5	7.0
20.....	6.0		9.0	6.0	4.0	5.0	4.0	5.0	2.5	4.0	3.5	6.0
21.....	6.0		8.5	6.0	4.0	5.0	4.0	5.0	2.5	3.5	3.5	6.0
22.....	7.0		7.5	6.0	4.0	5.5	4.0	4.5	3.0	3.5	3.5	9.5
23.....	8.0		7.0	5.0	4.0	5.5	4.5	4.5	3.0	3.5	3.5	9.5
24.....	7.0		6.5	5.0	4.0	5.0	4.5	4.5	3.0	3.5	3.5	9.5
25.....	6.0		6.0	5.0	4.0	5.0	4.5		3.0	3.5	3.5	8.5
26.....	6.0	9.0	6.0	5.0	4.5	5.0	4.5	4.5	3.0	3.5	3.5	7.5
27.....	6.0	10.0	6.0	5.0	4.5	5.0	4.5	4.5	3.5	4.0	3.5	6.0
28.....	7.0	17.0	6.0	5.0	4.5	6.0	5.0	4.0	3.5	4.5	3.5	5.0
29.....	7.0		6.5	5.0	4.0	6.0	5.0	4.0	3.5	5.5	3.5	4.0
30.....	7.0		7.0	5.5	4.0	6.5	5.5	4.0	3.5	4.5	3.5	4.0
31.....	7.0		7.0		4.0		5.5	3.5		4.0		4.0
<b>Means.</b>	<b>6.3</b>		<b>9.1</b>	<b>7.2</b>	<b>4.5</b>	<b>4.6</b>	<b>5.1</b>	<b>5.1</b>	<b>3.2</b>	<b>3.8</b>	<b>3.5</b>	<b>5.9</b>

## SUSQUEHANNA RIVER SYSTEM—JUNIATA RIVER, MIFFLIN, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	4.0	9.5	14.5	7.0	4.5	4.0	11.0	5.0	7.0	4.5	5.0	4.5
2.....	3.5	8.5	12.0	6.5	4.0	4.0	10.0	5.0	6.5	4.5	5.0	4.5
3.....	3.5	8.0	10.0	6.0	4.0	3.5	9.0	5.0	6.0	4.5	5.0	4.5
4.....	6.5	10.0	7.5	5.5	4.0	3.5	8.0	5.0	6.0	4.5	5.0	4.5
5.....	7.5	13.5	7.0	5.0	4.0	3.5	7.0	5.0	5.5	4.5	4.5	4.5
6.....	7.0	11.0	5.5	5.0	4.0	3.5	7.0	5.0	5.5	4.5	4.5	4.5
7.....	6.0	8.5	5.0	5.0	4.0	3.5	10.0	5.0	5.5	5.0	4.5	4.5
8.....	5.0	7.5	5.5	5.0	4.0	4.0	8.0	5.5	5.5	5.0	4.5	4.5
9.....	4.5	5.5	7.0	5.5	4.0	4.5	6.0	5.5	6.0	5.5	4.5	4.5
10.....	4.0	5.0	7.5	5.5	3.5	5.0	5.5	5.0	6.0	5.5	4.5	4.5
11.....	3.5	5.0	7.0	5.0	3.5	5.5	5.0	5.0	5.5	5.5	4.5	4.5
12.....	3.5	5.5	6.5	5.5	3.5	6.0	5.0	5.0	5.0	5.5	4.5	4.5
13.....	3.5	5.0	6.0	5.5	3.5	6.5	5.0	5.0	5.0	5.0	4.5	Frozen.
14.....	3.5	4.5	5.5	6.0	3.5	6.5	5.0	5.0	4.5	5.0	4.5	.....
15.....	3.5	5.0	5.0	11.0	3.5	6.5	5.0	5.0	4.5	5.0	4.5	.....
16.....	3.5	7.0	4.5	13.5	3.5	6.0	5.0	5.0	4.5	5.0	4.5	.....
17.....	3.5	10.0	4.5	12.0	3.5	6.0	5.0	5.0	5.0	5.0	4.5	.....
18.....	3.5	8.5	4.5	10.0	3.5	6.0	5.5	5.5	5.5	5.5	4.5	.....
19.....	3.5	7.5	4.0	8.0	3.5	6.0	9.0	5.0	5.5	5.5	4.5	.....
20.....	3.5	6.0	4.0	7.0	3.5	6.0	7.0	4.5	5.0	5.5	4.5	.....
21.....	3.5	5.5	4.0	6.5	3.5	6.0	7.5	4.0	5.0	5.0	4.5	.....
22.....	4.0	5.0	4.5	6.0	3.5	6.0	7.0	3.5	4.5	5.0	4.5	5.0
23.....	4.0	5.0	5.5	5.5	3.5	6.0	6.0	3.5	4.5	5.0	4.5	5.0
24.....	3.5	5.0	12.5	5.0	3.5	6.5	5.5	3.5	4.5	5.0	4.0	5.0
25.....	3.5	5.5	11.0	5.0	4.0	7.0	5.0	3.5	4.5	5.0	4.0	5.0
26.....	3.5	5.5	8.5	4.5	4.0	6.5	5.0	3.5	4.5	5.0	4.0	Frozen.
27.....	3.5	6.0	7.5	4.5	4.0	6.0	5.0	3.5	4.5	5.0	4.0	.....
28.....	3.5	7.5	7.0	4.5	4.0	6.0	5.0	4.0	4.5	5.0	4.0	.....
29.....	3.5	.....	6.0	4.5	4.0	6.5	5.0	9.5	4.5	5.0	4.0	.....
30.....	3.5	.....	4.5	4.5	4.0	7.0	5.0	8.5	4.5	5.0	4.0	.....
31.....	10.5	.....	4.5	.....	4.0	.....	5.0	8.0	.....	5.0	.....	.....
Means.	4.4	7.0	6.7	6.3	3.8	5.4	6.4	5.0	5.2	5.0	4.4	4.6
<b>1904</b>												
1.....	Frozen.	2.0	6.0	7.0	7.0	4.5	3.0	3.0	2.0	1.5	2.0	1.5
2.....	.....	2.0	9.0	12.5	6.0	5.5	3.0	3.0	2.0	1.5	2.0	1.5
3.....	.....	2.0	7.0	9.5	6.0	6.0	3.0	4.0	2.0	1.5	2.0	1.5
4.....	.....	2.0	14.0	8.0	5.0	6.0	3.0	4.5	2.0	1.5	2.0	1.5
5.....	.....	2.0	8.5	7.0	5.0	6.5	3.0	3.5	2.0	1.5	2.0	1.5
6.....	.....	2.0	6.0	6.5	4.5	6.0	3.0	3.5	2.0	1.5	2.0	1.5
7.....	.....	2.0	5.5	5.5	4.0	5.5	3.5	3.5	2.0	1.5	2.0	1.5
8.....	.....	11.5	13.0	5.0	4.0	5.0	5.5	3.0	2.0	1.5	2.0	1.5
9.....	.....	8.5	9.5	5.0	4.0	5.0	6.0	3.0	2.0	1.5	2.0	1.5
10.....	.....	6.5	7.5	6.0	3.5	4.5	8.0	2.5	2.0	1.5	2.0	1.5
11.....	.....	5.0	6.5	6.5	3.5	5.0	9.0	2.5	2.0	1.5	2.0	1.5
12.....	.....	4.5	6.0	6.0	3.5	5.0	8.5	2.0	2.0	1.5	2.0	Frozen.
13.....	.....	3.5	5.5	5.5	3.5	4.5	8.0	2.0	2.0	1.5	2.0	.....
14.....	.....	3.5	4.0	5.0	3.5	4.0	6.0	2.0	2.0	1.5	2.0	.....
15.....	.....	3.0	4.5	5.0	3.5	4.0	4.5	2.0	2.0	1.5	2.0	.....
16.....	.....	2.5	4.5	5.0	3.5	3.5	4.5	2.0	2.0	1.5	2.0	.....
17.....	.....	2.5	4.0	4.5	3.5	4.0	4.0	2.0	2.0	1.5	2.0	.....
18.....	Frozen.	.....	4.0	4.5	3.5	3.5	3.5	2.0	2.0	1.5	2.0	.....
19.....	.....	.....	4.0	4.0	3.5	3.5	3.0	2.0	1.5	1.5	2.0	.....
20.....	.....	.....	5.0	4.5	7.0	3.5	3.0	2.0	1.5	1.5	2.0	.....
21.....	.....	.....	5.5	4.0	6.0	4.0	3.0	2.0	1.5	1.5	2.0	.....
22.....	.....	.....	5.5	4.0	5.5	6.0	3.0	2.0	1.5	1.5	2.0	.....
23.....	(b)	.....	6.0	3.5	4.5	5.5	2.5	2.5	1.5	2.0	2.0	.....
24.....	9.0	9.0	8.5	3.5	4.5	4.5	3.5	2.5	1.5	2.0	2.0	.....
25.....	7.0	6.5	8.0	3.5	4.5	4.0	2.5	2.5	1.5	2.0	2.0	.....
26.....	5.0	5.0	7.5	3.5	4.5	4.5	3.0	2.5	1.5	2.0	2.0	.....
27.....	4.5	4.5	7.0	3.5	4.5	3.5	3.0	2.5	1.5	2.0	2.0	.....
28.....	4.0	4.5	7.0	4.0	4.0	3.5	3.5	2.5	1.5	2.0	1.5	.....
29.....	4.0	4.0	6.0	6.0	4.0	3.0	3.5	2.0	1.5	2.0	1.5	.....
30.....	4.0	.....	5.0	7.5	4.0	3.5	3.0	2.0	1.5	2.0	1.5	.....
31.....	4.0	.....	4.5	.....	4.5	.....	3.0	2.0	.....	2.0	.....	.....
Means.	.....	4.3	6.6	5.5	4.5	4.6	4.1	2.5	1.8	1.6	2.0	.....

a 16.0 at 6 a. m.

b 13.0 at 11 p. m.

## DESCRIPTION OF RIVER GAGES, ETC.

## SUSQUEHANNA RIVER SYSTEM—SUSQUEHANNA RIVER, SUNBURY, PA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
2.....	0.0	0.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
3.....	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.....	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11.....	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.....	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.....	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.....	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.....	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16.....	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.....	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18.....	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19.....	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21.....	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.....	7.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23.....	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24.....	3.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.....	2.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26.....	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0
27.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.0
28.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0
29.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	0.0
30.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0
31.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Means.	0.7	1.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.2
<b>1901</b>												
1.....	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.....	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.....	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.....	0.0	0.0	0.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9.....	0.0	0.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.....	0.0	0.0	0.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11.....	0.0	0.0	3.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
12.....	0.0	0.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
13.....	0.0	0.0	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
14.....	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
15.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0
16.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5
17.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5
18.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5
19.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
20.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
21.....	0.0	0.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
22.....	0.0	0.0	5.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
23.....	0.0	0.0	7.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
24.....	0.0	0.0	7.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
25.....	0.0	0.0	7.0	5.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
26.....	0.0	0.0	7.0	3.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0
27.....	0.0	0.0	7.0	2.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0
28.....	0.0	0.0	8.0	1.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0
29.....	0.0	0.0	9.0	0.0	3.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
30.....	0.0	0.0	7.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
31.....	0.0	0.0	5.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
Means.	0.0	0.0	2.7	2.7	0.6	0.0	0.0	0.3	0.0	0.0	0.0	2.5

## SUSQUEHANNA RIVER SYSTEM—SUSQUEHANNA RIVER, SUNBURY, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	0.3	0.0	12.0	0.0	0.0	0.0	1.0	2.0	0.0	2.0	.....	0.0
2.....	0.0	0.0	16.0	0.0	0.0	0.0	2.0	3.0	0.0	3.0	.....	0.0
3.....	0.0	0.0	15.0	0.0	0.0	0.0	4.0	2.0	0.0	3.0	.....	0.0
4.....	0.0	0.0	12.0	0.0	0.0	0.0	6.0	2.0	0.0	3.0	.....	0.0
5.....	0.0	0.0	10.0	0.0	0.0	0.0	5.0	1.0	0.0	3.0	.....	0.0
6.....	0.0	0.0	8.0	0.0	0.0	0.0	4.0	0.0	0.0	2.0	.....	0.0
7.....	0.0	0.0	4.0	0.0	0.0	0.0	3.0	0.0	0.0	1.0	.....	0.0
8.....	0.0	0.0	2.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	.....	0.0
9.....	0.0	0.0	0.0	2.0	0.0	0.0	5.0	0.0	0.0	0.0	.....	0.0
10.....	0.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0	0.0	.....	0.0
11.....	0.0	0.0	0.0	5.0	0.0	0.0	2.0	0.0	0.0	0.0	.....	0.0
12.....	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	.....	0.0
13.....	0.0	0.0	4.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	.....	0.0
14.....	0.0	0.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.....	0.0
15.....	0.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.....	0.0
16.....	0.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.....	1.0
17.....	0.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.....	2.0
18.....	0.0	0.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.....	4.0
19.....	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.....	4.0
20.....	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.....	4.0
21.....	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.....	6.0
22.....	2.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	.....	7.0
23.....	3.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	.....	8.0
24.....	3.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	.....	9.0
25.....	3.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	.....	8.0
26.....	3.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	1.0	0.0	.....	7.0
27.....	2.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	2.0	0.0	.....	5.0
28.....	0.0	2.0	0.0	0.0	0.0	0.0	2.0	0.0	2.0	1.0	.....	3.0
29.....	0.0	.....	0.0	0.0	0.0	0.0	1.0	0.0	1.0	2.0	.....	2.0
30.....	0.0	.....	0.0	0.0	0.0	0.0	0.0	0.0	.....	3.0	.....	1.0
31.....	0.0	.....	0.0	.....	0.0	.....	0.0	0.0	.....	3.0	.....	0.0
Means.	0.5	0.1	4.3	0.5	0.0	0.0	2.4	0.3	0.2	0.8	.....	2.3
<b>1903</b>												
1.....	0.0	8.0	12.0	0.0	0.0	0.0	0.0	0.0	.....	0.0	0.0	0.0
2.....	0.0	7.0	10.0	0.0	0.0	0.0	0.0	0.0	.....	0.0	0.0	0.0
3.....	0.0	6.0	8.0	0.0	0.0	0.0	0.0	0.0	.....	0.0	0.0	0.0
4.....	0.0	6.0	7.0	0.0	0.0	0.0	0.0	0.0	.....	0.0	0.0	0.0
5.....	0.0	6.0	4.0	0.0	0.0	0.0	0.0	0.0	.....	0.0	0.0	0.0
6.....	0.0	6.0	1.0	0.0	0.0	0.0	0.0	0.0	.....	0.0	0.0	0.0
7.....	0.0	6.0	0.0	0.0	0.0	0.0	2.0	0.0	.....	0.0	0.0	0.0
8.....	0.0	4.0	0.0	0.0	0.0	0.0	3.0	0.0	.....	0.0	0.0	0.0
9.....	0.0	2.0	0.0	0.0	0.0	0.0	3.0	0.0	.....	2.0	0.0	0.0
10.....	0.0	1.0	3.0	0.0	0.0	0.0	3.0	0.0	.....	5.0	0.0	0.0
11.....	0.0	0.0	9.0	0.0	0.0	0.0	3.0	0.0	.....	8.0	0.0	0.0
12.....	0.0	0.0	8.0	0.0	0.0	0.0	3.0	0.0	.....	6.0	0.0	0.0
13.....	0.0	0.0	5.0	0.0	0.0	0.0	3.0	0.0	.....	4.0	0.0	0.0
14.....	0.0	0.0	2.0	0.0	0.0	0.0	2.0	0.0	.....	2.0	0.0	0.0
15.....	0.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0	.....	0.0	0.0	0.0
16.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.....	0.0	0.0	0.0
17.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.....	0.0	0.0	0.0
18.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.....	0.0	2.0	0.0
19.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.....	0.0	4.0	0.0
20.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.....	0.0	2.0	0.0
21.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.....	0.0	0.0	0.0
22.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.....	0.0	0.0	0.0
23.....	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	.....	0.0	0.0	0.0
24.....	0.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	.....	0.0	0.0	0.0
25.....	0.0	0.0	10.0	0.0	0.0	2.0	0.0	0.0	.....	0.0	0.0	0.0
26.....	0.0	0.0	8.0	0.0	0.0	3.0	0.0	0.0	.....	0.0	0.0	0.0
27.....	0.0	0.0	5.0	0.0	0.0	3.0	0.0	0.0	.....	0.0	0.0	0.0
28.....	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	.....	0.0	0.0	0.0
29.....	3.0	.....	0.0	0.0	0.0	1.0	0.0	0.0	.....	0.0	0.0	0.0
30.....	6.0	.....	0.0	0.0	0.0	0.0	0.0	2.0	.....	0.0	0.0	0.0
31.....	8.0	.....	0.0	.....	0.0	.....	0.0	6.0	.....	0.0	.....	0.0
Means.	0.5	2.0	3.5	0.0	0.0	0.4	0.7	0.3	.....	0.9	0.3	0.0

## DESCRIPTION OF RIVER GAGES, ETC

## SUSQUEHANNA RIVER SYSTEM—SUSQUEHANNA RIVER, SUNBURY, PA.—Continued.

[illegible]

## SUSQUEHANNA RIVER SYSTEM—SUSQUEHANNA RIVER, SELINGSGROVE, PA.

1900			
1	1.3	3.0	2.8
2	1.4	10.0	2.8
3	1.6	8.3	3.2
4	1.6	6.8	4.3
5	1.6	5.8	5.0
6	2.2	4.7	4.7
7	2.2	4.2	4.1
8	2.0	4.9	4.5
9	2.6	4.7	5.7
10	6.2	4.3	5.6
11	4.2	4.7	4.9
12	4.4	4.8	4.0
13	4.5	3.9	3.6
14	6.0	3.3	3.2
15	6.7	2.8	3.3
16	6.5	2.3	3.4
17	5.5	2.4	3.2
18	4.0	1.8	3.5
19	3.4	1.5	5.2
20	2.8	1.9	6.4
21	2.4	3.7	6.0
22	2.8	5.4	5.3
23	7.8	4.6	4.7
24	8.7	4.2	4.7
25	6.5	4.3	5.3
26	5.3	4.3	4.7
27	4.3	4.0	4.2
28	3.9	3.7	3.6
29		3.2	3.2
30		3.2	2.9
31		3.2	
Means	4.0	4.2	4.3

## SUSQUEHANNA RIVER SYSTEM—SUSQUEHANNA RIVER, SELINGROVE, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1		0.2	0.2	5.3								
2		0.1	0.3	4.5								
3		0.3	0.4	4.1								
4		0.4	0.6	4.8								
5		0.3	0.7	5.4								
6		0.2	1.3	5.8								
7		0.1	1.5	7.9								
8		0.9	1.6	10.1								
9		0.6	1.0	10.0								
10		0.3	1.3	8.8								
11		0.2	3.5	7.5								
12		0.6	7.7	6.8								
13		0.8	8.0	5.8								
14		1.2	6.3	5.2								
15		1.6	5.4	4.9								
16		1.7	5.0	4.5								
17		1.4	4.7	4.4								
18		1.1	4.3	4.0								
19		0.8	4.0	3.8								
20		0.7	4.2	3.5								
21		0.5	5.7	5.2								
22		1.4	7.8	9.4								
23		1.7	8.2	10.9								
24		1.3	7.2	9.0								
25		C. C.	6.5	7.8								
26		0.5	6.7	7.4								
27		0.2	8.3	6.8								
28		-0.1	11.0	5.8								
29			10.5	5.0								
30			8.5	4.2								
31			6.4									
Means		0.7	4.8	6.3								
<b>1902</b>												
1		2.5	15.7	5.1	1.8	1.0						1.5
2		2.2	19.3	4.7	1.8	0.9						1.6
3		2.4	19.1	4.4	1.7	0.8						1.6
4		2.3	15.9	4.0	1.6	0.7						1.9
5		2.3	12.5	3.9	1.8	0.6						2.1
6		2.2	8.5	3.8	1.7	0.6						2.3
7		2.1	6.4	3.7	1.6	0.7						2.3
8		2.0	5.5	3.7	1.8	0.9						2.2
9		2.0	5.2	7.7	1.8	1.0						2.0
10		2.2	4.4	10.5	1.7	0.9						1.8
11		1.8	6.2	10.5	1.6	0.8						1.8
12		1.6	7.1	8.5	1.5	1.0						1.7
13		1.4	8.1	7.0	1.4	1.0						2.0
14		1.3	11.1	6.0	1.3	1.0						2.4
15		1.2	10.7	5.1	1.2	1.1						2.2
16		1.1	9.0	4.5	1.1	1.2						2.2
17		1.2	10.7	4.1	1.0	1.2						6.0
18		1.4	11.9	3.7	0.9	1.4						6.5
19		1.4	10.2	3.5	0.9	1.4						6.5
20		1.3	8.5	3.2	0.9	1.2						5.9
21		1.2	7.0	2.9	0.8	1.2						5.3
22		1.4	5.4	2.7	0.9	1.1						7.0
23		1.4	4.9	2.5	0.7	1.1						9.8
24		1.9	4.6	2.3	0.7	1.0						9.8
25		2.3	4.4	2.1	0.7	0.9						8.0
26		3.0	4.1	2.0	0.8	1.0						6.0
27		3.6	3.7	1.9	0.8	1.1						5.2
28		4.5	3.5	1.8	0.8	1.1						4.5
29			3.5	1.6	0.9	1.4						3.7
30			4.7	1.5	1.1	1.9						3.5
31			5.1		1.1							3.0
Means		2.0	8.3	4.3	1.2	1.0						3.9

## DESCRIPTION OF RIVER GAGES, ETC.

## SUSQUEHANNA RIVER SYSTEM—SUSQUEHANNA RIVER, SELINGSGROVE, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	2.7	9.2	12.5	5.0	1.7	0.4						1.6
2.....	2.5	7.6	13.1	5.8	1.5	0.4						1.6
3.....	2.5	6.7	10.4	5.3	1.4	0.4						1.6
4.....	3.4	7.4	8.1	4.7	1.4	0.4						1.5
5.....	4.0	10.6	6.5	4.2	1.3	0.3						1.4
6.....	4.9	11.6	5.9	4.7	1.3	0.3						1.3
7.....	4.4	8.8	5.9	4.5	1.2	0.3						1.4
8.....	4.2	6.8	6.4	4.1	1.2	0.4						1.2
9.....	3.5	5.9	6.5	5.0	1.1	0.6						1.2
10.....	2.7	4.9	10.3	5.7	1.0	0.8						0.9
11.....	2.5	4.2	10.2	5.5	1.0	0.9						1.0
12.....	2.0	4.5	10.1	4.9	0.9	1.3						1.0
13.....	Frozen.	4.8	10.1	4.8	0.9	2.0						0.8
14.....		5.4	8.9	4.9	0.9	2.9						1.3
15.....		5.7	7.5	6.2	0.8	2.8						1.0
16.....		5.3	6.1	8.5	0.8							0.9
17.....	2.1	5.6	5.7	8.6	0.7							0.8
18.....	2.4	4.5	5.1	7.0	0.7							0.7
19.....	Frozen.	4.0	4.7	6.1	0.7							0.7
20.....		3.4	4.2	5.0	0.7							0.8
21.....		2.9	4.0	4.4	0.7							1.7
22.....	2.6	2.5	3.4	3.9	0.6							2.7
23.....	2.8	3.2	4.2	3.5	0.7							3.7
24.....	3.2	3.0	10.0	3.0	0.7							3.2
25.....	3.2	3.4	12.2	2.8	0.5							3.0
26.....	2.9	3.5	10.4	2.6	0.5							3.0
27.....	2.6	2.6	8.5	2.5	0.5							2.7
28.....	2.3	3.6	6.9	2.4	0.5							2.2
29.....	2.3		5.8	2.2	0.5							2.1
30.....	3.2		4.9	1.8	0.5							2.1
31.....	9.0		4.6		0.6							2.0
Means.....	3.2	5.4	7.5	4.7	0.9	0.9						1.6
<b>1904</b>												
1.....	2.0	3.0	2.7	5.4	6.0	2.0						0.8
2.....	1.8	2.8	3.1	10.0	5.6	2.2						0.7
3.....	2.0	2.5	4.6	11.0	5.0	2.7						0.7
4.....	1.9	2.4	7.4	8.6	4.4	2.5						0.6
5.....	Frozen.	2.2	9.0	7.0	3.8	2.4						0.6
6.....		2.0	7.0	6.0	3.3	3.7						0.6
7.....		2.2	5.9	5.4	2.8	3.9						0.5
8.....		2.7	11.4	5.2	2.5	3.0						0.5
9.....		7.9	11.5	5.2	2.3	2.4						0.5
10.....		8.6	11.0	6.0	2.2	2.6						0.5
11.....		7.8	9.0	7.6	2.0	4.6						0.6
12.....		6.6	7.1	7.9	1.9	4.0						0.6
13.....		5.6	5.8	6.8	1.8	3.0						0.6
14.....		4.7	5.0	5.7	1.7	2.3						0.6
15.....		4.0	4.3	5.0	2.0	2.0						0.5
16.....		3.4	3.9	4.5	2.3	1.8						0.5
17.....		2.9	3.5	4.1	2.6	1.8						0.5
18.....		2.6	3.3	3.8	3.2	1.7						0.5
19.....		2.5	3.1	3.8	3.6	1.6						0.5
20.....		2.3	3.7	3.5	4.1	1.5						0.5
21.....		2.3	4.3	3.4	6.2	1.3						0.5
22.....		2.5	5.0	3.3	4.9	1.2						0.5
23.....	3.6	2.8	5.1	3.2	4.1	1.4						0.5
24.....	10.3	3.2	6.0	2.8	3.4	1.9						0.7
25.....	10.0	3.7	11.3	2.6	2.8	1.7						0.8
26.....	7.9	3.5	9.5	2.5	2.7	1.3						0.8
27.....	6.6	3.3	12.0	2.9	2.7	1.1						0.9
28.....	5.0	3.0	12.0	3.5	2.5	0.9						0.9
29.....	4.4	2.4	9.9	4.3	2.2	0.8						2.9
30.....	3.8		7.6	6.5	2.2	0.8						5.8
31.....	3.4		6.0		2.1							4.9
Means.....		3.6	6.8	5.2	3.2	2.1						1.0

\*14.3 during day.



## SUSQUEHANNA RIVER SYSTEM—SUSQUEHANNA RIVER, HARRISBURG, PA.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1.....	1.8	2.9	4.0	4.2	4.3	2.6	1.2	1.2	1.0	0.0	0.8	7.0
2.....	1.7	1.8	a 12.8	4.0	3.8	2.5	1.1	1.0	1.0	0.0	0.8	5.8
3.....	4.5	3.9	12.3	4.2	3.5	2.3	1.0	1.0	0.9	0.0	0.8	5.2
4.....	4.9	4.0	9.5	4.4	3.3	2.2	1.1	0.9	1.2	0.1	0.8	4.5
5.....	4.8	4.7	7.9	5.3	3.1	2.5	1.3	0.8	0.9	0.0	0.8	5.0
6.....	5.2	4.3	6.9	6.0	2.8	2.7	1.2	0.7	0.8	0.0	0.7	7.2
7.....	5.5	5.5	6.0	5.4	2.8	2.5	1.3	0.7	0.6	0.0	0.7	7.4
8.....	5.3	5.0	6.2	5.1	2.8	2.2	1.2	0.6	0.6	0.1	0.7	7.1
9.....	4.9	4.0	6.5	6.2	2.5	2.2	1.4	0.5	0.6	0.0	0.8	6.0
10.....	4.6	4.8	5.8	6.8	2.5	2.1	1.4	0.6	0.5	0.0	0.6	5.2
11.....	4.5	5.8	5.7	6.5	2.4	2.0	1.3	0.5	0.4	0.0	0.7	4.8
12.....	5.5	5.5	6.2	5.6	2.3	2.0	1.2	0.3	0.3	0.0	0.5	4.1
13.....	4.9	5.7	5.8	5.0	2.4	1.9	1.1	0.3	0.2	0.2	0.6	3.8
14.....	5.2	7.7	4.7	4.5	2.4	1.9	1.1	0.2	0.2	0.8	0.8	3.5
15.....	5.2	8.0	4.5	4.3	2.5	2.0	1.0	0.2	0.2	0.8	0.7	2.9
16.....	5.2	8.2	4.0	4.5	2.4	2.2	1.0	0.2	0.2	0.8	0.7	2.8
17.....	4.7	7.4	3.7	4.4	2.3	2.2	1.0	0.2	0.2	0.6	0.8	2.2
18.....	5.0	6.0	3.2	4.3	2.3	2.0	1.1	0.2	0.2	0.7	0.9	2.1
19.....	4.8	4.8	3.0	5.1	2.2	1.8	0.9	0.2	0.1	0.7	0.8	2.1
20.....	4.0	3.9	3.0	7.1	2.5	1.8	0.9	0.2	0.1	0.6	0.9	2.1
21.....	4.2	2.2	3.9	7.3	2.9	1.8	0.8	0.3	0.1	0.5	0.9	2.0
22.....	10.7	3.6	6.6	6.8	3.2	1.8	0.8	0.4	0.1	0.5	0.9	2.2
23.....	12.0	9.5	6.8	6.1	2.8	1.8	0.8	0.8	0.1	0.5	0.8	2.4
24.....	9.2	11.2	6.0	5.8	2.6	1.6	0.8	0.5	0.0	0.5	1.0	2.2
25.....	7.2	9.8	5.8	6.0	2.4	1.4	0.8	1.2	0.0	1.0	1.1	2.3
26.....	6.1	6.8	5.8	6.2	2.2	1.3	0.8	1.0	0.0	1.1	1.7	2.4
27.....	5.0	5.5	5.5	5.8	2.2	1.3	1.5	1.2	0.0	1.0	5.9	2.0
28.....	4.5	4.5	5.2	5.1	2.0	1.3	1.2	1.5	0.0	1.2	b 12.8	2.7
29.....	4.1		4.8	4.6	2.0	1.3	1.2	1.3	0.0	1.2	12.3	2.9
30.....	3.3		4.5	4.2	2.0	1.2	1.4	1.0	0.0	1.0	8.9	2.6
31.....	2.5		4.4		1.9		1.2	1.1		0.9		2.5
Means.	5.2	5.6	5.8	5.4	2.6	1.9	1.1	0.7	0.4	0.5	2.0	3.8
<b>1901</b>												
1.....	2.2	2.6	1.8	7.2	5.2	12.6	3.1	1.7	3.5	2.1	1.4	3.1
2.....	2.1	4.0	1.7	6.0	4.6	10.4	2.8	1.8	3.8	2.4	1.4	3.0
3.....	1.7	3.3	1.8	5.7	4.5	8.9	2.6	1.8	4.8	2.3	1.3	2.8
4.....	1.7	3.2	1.8	6.2	4.4	7.8	2.3	1.6	5.2	2.3	1.3	2.8
5.....	1.8	3.2	2.3	7.5	5.2	7.2	2.2	1.5	4.8	2.5	1.2	3.1
6.....	1.7	3.1	2.5	7.8	5.0	6.3	2.2	1.2	4.2	2.4	1.2	2.7
7.....	1.4	3.2	2.6	8.7	4.6	5.5	2.3	1.7	3.6	2.2	1.2	2.8
8.....	1.2	3.2	2.5	11.4	4.1	5.5	2.2	2.6	3.2	1.8	1.2	2.2
9.....	1.5	3.2	3.0	12.7	3.8	6.0	2.1	2.8	2.8	1.8	1.2	2.2
10.....	1.5	3.0	3.2	11.5	3.7	5.8	2.1	2.5	2.5	1.8	1.2	2.6
11.....	1.7	2.8	6.4	10.0	3.4	5.5	2.0	2.3	2.5	1.7	1.2	4.5
12.....	2.0	2.9	11.8	8.7	3.8	5.0	1.9	2.8	2.3	1.7	1.0	7.0
13.....	2.0	2.8	11.8	7.5	4.2	4.7	1.9	2.4	2.4	1.7	1.1	7.0
14.....	2.5	2.8	9.3	6.9	4.5	4.2	1.8	2.0	2.3	1.8	1.2	6.2
15.....	3.5	2.8	7.5	6.2	5.2	3.9	1.9	1.8	2.3	2.4	1.3	9.2
16.....	3.3	2.6	6.7	5.9	5.1	3.5	1.8	1.7	2.2	2.7	1.6	21.4
17.....	3.4	2.8	6.2	5.8	5.7	3.8	1.7	1.7	2.4	2.5	1.7	18.6
18.....	2.9	2.6	5.8	5.3	4.2	3.6	2.1	1.8	2.4	2.1	1.9	14.2
19.....	2.6	2.4	5.2	5.0	4.0	3.5	2.4	5.5	2.5	2.1	1.9	9.8
20.....	1.8	2.4	5.0	4.8	4.2	3.2	2.2	5.8	2.7	2.0	1.9	9.0
21.....	1.8	2.1	5.9	5.5	4.1	3.1	2.0	5.0	2.6	2.0	1.8	6.2
22.....	1.8	2.0	8.5	11.0	4.0	3.2	1.8	4.1	2.6	1.9	1.8	4.8
23.....	2.0	2.0	9.5	13.6	5.5	3.8	1.8	4.2	2.4	1.9	1.6	3.8
24.....	1.8	1.9	9.1	12.2	8.4	3.8	1.7	4.8	2.3	1.8	1.8	3.6
25.....	2.0	1.9	8.0	10.2	7.5	4.0	1.6	7.8	2.1	1.8	2.5	3.8
26.....	1.8	1.9	7.7	9.2	8.0	3.9	1.5	9.0	2.0	1.7	3.1	3.8
27.....	2.0	1.8	8.3	8.5	7.5	3.8	1.6	7.2	1.8	1.6	5.4	3.9
28.....	2.0	1.8	11.8	7.2	7.0	3.5	1.7	5.8	1.8	1.7	5.2	3.9
29.....	2.0		c 12.9	6.5	8.8	3.2	1.5	4.8	1.7	1.5	4.0	3.9
30.....	1.8		12.2	5.8	12.2	3.2	1.5	4.0	1.7	1.4	3.6	5.6
31.....	1.7		9.0		13.9		1.5	3.5		1.4		6.2
Means.	2.0	2.7	6.5	8.0	5.7	5.1	2.0	3.5	2.8	2.0	1.9	5.9
a 13.4 during day.      b 13.2 during day.      c 13.5 during day.												

## SUSQUEHANNA RIVER SYSTEM—SUSQUEHANNA RIVER, HARRISBURG, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	5.2	3.6	20.3	6.2	2.8	1.8	3.6	5.8	1.2	4.8	5.5	2.4
2.....	4.8	3.7	23.9	5.6	2.8	1.8	6.2	5.8	1.2	6.0	4.8	2.4
3.....	4.2	3.5	23.3	5.3	2.8	1.7	7.3	5.5	1.2	5.9	4.5	2.6
4.....	3.8	3.2	21.4	5.0	2.7	1.7	6.7	6.2	1.2	5.7	4.0	3.3
5.....	3.0	2.4	16.3	4.8	2.7	1.7	7.8	5.5	1.2	4.7	3.5	3.8
6.....	3.0	2.0	12.2	4.5	2.8	1.7	7.5	4.8	1.1	4.7	3.5	3.2
7.....	3.0	6.1	9.5	4.5	2.8	1.5	6.8	4.5	1.0	4.7	3.2	3.5
8.....	2.8	5.2	7.0	4.5	2.7	1.2	7.3	4.0	0.9	4.4	3.1	3.4
9.....	2.8	5.0	5.2	9.0	2.7	1.5	8.5	3.6	0.9	3.8	2.9	3.4
10.....	3.0	5.1	5.0	14.4	2.7	1.6	7.2	3.2	0.9	3.8	2.8	3.2
11.....	2.9	5.3	6.7	14.2	2.7	1.5	6.2	3.5	0.9	3.5	2.7	3.0
12.....	2.7	5.2	8.3	11.6	2.5	1.5	6.2	3.6	1.2	3.6	2.4	3.0
13.....	2.6	4.8	10.9	10.9	2.4	1.5	6.2	3.2	1.2	4.8	2.4	3.8
14.....	2.2	4.4	13.4	8.2	2.3	1.5	5.5	3.1	1.1	4.8	2.3	3.7
15.....	2.2	4.4	13.6	7.1	2.2	1.8	4.6	2.8	1.2	3.8	2.3	4.0
16.....	2.2	4.2	12.0	6.4	2.2	1.8	4.0	2.8	1.1	3.9	2.2	4.0
17.....	2.2	4.1	12.2	5.7	2.2	2.2	3.5	2.5	1.1	3.8	2.2	5.3
18.....	2.0	3.8	15.0	5.1	2.0	2.4	3.2	2.5	1.0	3.2	2.2	8.6
19.....	2.0	3.8	13.7	4.8	1.8	2.4	3.2	2.2	1.0	3.3	2.2	8.3
20.....	2.2	3.8	11.3	4.4	1.8	2.3	3.2	2.0	1.0	3.0	1.9	7.7
21.....	2.2	3.8	9.5	4.1	1.8	2.2	3.3	2.0	1.0	2.9	1.8	7.2
22.....	5.2	4.0	6.0	3.8	1.8	2.2	4.3	1.9	0.9	2.7	1.8	8.5
23.....	10.0	4.0	5.5	3.5	1.8	2.2	8.1	1.9	0.8	2.6	1.8	12.5
24.....	6.8	4.1	5.3	3.4	1.7	2.0	8.0	1.8	0.8	2.4	1.7	12.7
25.....	6.5	4.2	5.3	3.2	1.7	2.0	7.2	1.8	0.8	2.2	1.7	11.5
26.....	5.4	6.4	4.7	3.0	1.7	2.0	7.8	1.6	1.7	2.4	1.9	8.2
27.....	5.1	9.4	3.7	2.9	1.7	2.2	8.1	1.6	3.8	2.3	2.0	7.2
28.....	5.3	9.7	3.7	2.8	1.7	2.4	6.8	1.5	5.2	2.3	2.2	6.2
29.....	5.3		4.4	2.8	1.7	2.4	5.8	1.4	4.3	3.7	2.3	5.6
30.....	4.3		4.4	2.8	1.7	3.0	6.2	1.2	4.3	5.7	2.4	4.8
31.....	3.9		5.3		1.8		6.2	1.2		6.0		4.6
<b>Means.</b>	<b>3.8</b>	<b>4.6</b>	<b>10.3</b>	<b>5.8</b>	<b>2.2</b>	<b>1.9</b>	<b>6.0</b>	<b>3.1</b>	<b>1.5</b>	<b>3.9</b>	<b>2.7</b>	<b>5.5</b>
<b>1903</b>												
1.....	4.3	11.6	13.4	6.2	3.2	1.1	7.3	3.5	10.0	1.8	3.2	2.5
2.....	3.7	10.5	16.8	6.6	2.8	1.0	6.0	3.3	8.3	1.8	3.1	2.4
3.....	3.8	8.8	14.5	6.8	2.5	1.0	5.2	2.9	6.8	1.8	3.0	2.3
4.....	4.8	8.9	11.0	6.2	2.4	1.0	4.7	2.7	5.7	1.6	2.8	2.2
5.....	5.6	13.0	8.3	5.8	2.4	0.9	4.1	2.4	5.2	1.6	2.8	2.1
6.....	5.9	14.6	7.3	5.3	2.3	0.9	4.4	2.5	4.6	1.5	2.7	2.0
7.....	6.3	12.2	6.9	5.4	2.2	0.9	4.7	2.9	4.0	1.4	2.6	2.0
8.....	5.8	9.3	7.0	5.1	2.2	0.9	5.3	4.8	3.3	1.8	2.5	2.0
9.....	5.0	8.2	6.5	5.8	2.1	1.2	5.3	4.7	3.7	2.7	2.5	2.3
10.....	4.3	7.0	10.7	6.8	2.0	1.8	4.3	4.1	3.8	5.0	2.4	2.2
11.....	3.4	6.0	12.0	6.8	2.0	2.0	3.8	3.7	3.5	10.7	2.4	1.9
12.....	2.9	6.2	10.9	6.2	2.0	2.2	3.2	3.5	3.5	11.2	2.4	1.9
13.....	2.7	6.5	11.9	6.0	2.0	2.7	3.2	3.5	3.5	11.1	2.4	1.9
14.....	2.2	6.7	10.8	5.9	2.0	3.8	3.2	3.5	3.3	9.2	2.3	2.0
15.....	2.2	7.0	9.2	8.8	2.0	4.2	2.8	3.0	3.5	7.4	2.3	1.0
16.....	2.7	6.8	7.6	12.1	2.0	4.3	2.8	3.2	3.2	5.9	2.3	1.0
17.....	3.0	7.0	6.8	12.3	1.9	4.4	2.6	3.5	2.8	5.2	2.3	1.0
18.....	3.2	6.5	6.1	10.2	1.8	4.2	2.3	3.3	2.8	4.8	2.5	1.3
19.....	3.2	5.7	5.7	8.5	1.7	3.8	3.1	3.2	3.2	5.3	8.7	1.2
20.....	3.2	4.6	5.2	7.0	1.6	3.4	4.5	2.8	3.3	6.5	8.2	2.0
21.....	3.2	4.1	4.9	6.2	1.6	3.3	5.7	2.6	3.0	6.6	6.5	5.3
22.....	3.2	3.8	5.0	5.2	1.5	3.3	5.4	2.5	2.8	6.2	6.2	5.7
23.....	4.2	4.5	5.2	4.9	1.5	3.7	4.3	2.3	2.6	5.5	4.7	5.4
24.....	3.9	4.0	8.8	4.7	1.5	4.3	3.9	2.4	2.5	4.8	4.3	4.6
25.....	3.9	4.1	15.0	4.5	1.4	5.6	3.6	2.3	2.4	4.4	4.0	3.8
26.....	3.5	4.0	13.3	4.3	1.3	6.5	3.2	2.2	2.3	3.7	3.8	4.0
27.....	3.5	3.9	10.6	4.1	1.3	7.2	3.0	2.2	2.2	3.8	3.3	3.5
28.....	3.6	4.6	8.8	4.0	1.3	6.5	3.0	2.2	2.1	3.7	2.5	3.1
29.....	3.8		7.1	3.6	1.2	6.0	2.8	4.2	1.8	3.5	2.5	2.9
30.....	4.7		6.1	3.3	1.2	5.5	3.0	5.9	1.8	3.3	2.5	2.7
31.....	8.1		6.1		1.2		3.3	9.2		3.2		2.1
<b>Means.</b>	<b>4.0</b>	<b>7.1</b>	<b>9.0</b>	<b>6.3</b>	<b>1.9</b>	<b>3.3</b>	<b>4.0</b>	<b>3.4</b>	<b>3.7</b>	<b>4.7</b>	<b>3.5</b>	<b>2.6</b>

a 14.9 at 3 p. m.

b Maximum stage, 17.1.

## SUSQUEHANNA RIVER SYSTEM—SUSQUEHANNA RIVER, HARRISBURG, PA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1	2.2	4.5	9.4	7.0	8.2	4.2	2.5	2.2	1.9	2.2	2.9	2.5
2	2.2	4.2	11.5	10.9	7.2	4.5	2.3	2.2	1.8	2.4	2.8	2.2
3	4.0	4.0	11.9	13.7	7.0	4.8	2.6	2.4	1.6	2.4	2.8	2.1
4	3.2	3.2	13.5	11.8	6.2	4.8	2.5	2.6	1.7	2.4	2.6	1.9
5	3.5	2.4	<sup>a</sup> 21.9	10.0	5.5	4.6	2.2	2.5	1.7	2.5	2.5	2.0
6	2.9	4.4	19.4	8.3	4.7	5.5	2.3	2.4	1.8	2.5	2.3	1.6
7	2.9	3.8	16.3	7.3	4.6	5.8	2.3	2.5	1.7	2.3	2.4	2.0
8	2.8	3.8	21.2	6.8	4.4	5.3	2.8	2.8	1.6	2.2	2.2	1.8
9	2.8	5.5	15.9	6.7	4.1	4.6	3.2	2.4	1.6	2.2	2.2	1.9
10	2.8	9.1	15.0	7.0	4.0	4.2	3.2	2.3	1.7	2.2	2.2	1.9
11	3.0	9.3	12.0	8.5	3.8	4.9	5.1	2.5	1.8	2.1	2.2	1.6
12	3.6	8.5	9.2	9.8	3.6	6.0	5.7	2.3	1.7	2.1	2.2	1.6
13	3.8	9.9	7.9	8.6	3.5	5.2	5.0	2.3	1.8	2.1	2.1	2.4
14	3.8	13.5	6.6	7.8	3.2	4.5	4.3	2.2	1.8	2.2	2.2	2.1
15	4.7	12.5	6.1	6.9	3.4	3.8	3.8	2.0	2.0	2.2	2.3	2.2
16	4.1	11.6	5.6	6.2	3.8	3.5	3.5	2.0	2.2	3.9	2.2	2.1
17	4.1	10.2	5.2	5.8	4.0	3.2	3.2	2.0	2.8	3.8	2.0	1.3
18	5.0	9.8	4.8	5.7	4.3	3.4	2.8	1.9	3.1	3.2	2.1	1.5
19	4.2	9.2	4.7	5.2	4.7	3.4	2.6	1.9	2.5	3.0	2.1	1.5
20	4.1	9.1	4.7	5.1	5.6	3.2	2.7	1.8	2.5	2.8	2.1	1.5
21	4.2	8.9	5.0	4.5	6.7	3.2	2.4	1.7	2.3	2.7	2.1	1.4
22	4.7	9.2	5.6	3.9	7.2	3.2	2.3	1.7	2.2	2.6	2.1	1.4
23	5.5	10.2	6.7	4.3	5.9	3.2	2.2	1.7	2.0	3.8	2.1	1.5
24	15.5	10.2	7.1	4.2	5.2	3.2	3.4	1.7	2.1	4.5	2.1	1.6
25	11.5	10.9	10.3	4.0	4.8	3.2	2.6	1.8	1.8	5.0	2.2	1.6
26	10.2	10.4	11.0	4.1	4.4	3.1	2.5	2.2	1.8	4.5	2.4	1.6
27	7.5	10.6	12.3	4.1	4.6	2.9	2.3	2.2	1.8	3.9	2.5	1.8
28	6.8	9.5	13.8	4.3	4.5	2.7	2.2	2.8	1.8	3.5	2.3	1.9
29	5.8	9.1	12.5	5.5	4.2	2.6	2.2	2.4	1.7	3.0	2.2	2.1
30	4.8		10.2	7.6	3.9	2.4	2.2	2.2	2.8	2.7	2.2	9.4
31	4.5		8.4		4.0		2.2	2.0		3.0		8.4
Means	4.9	8.2	10.5	6.9	4.9	4.0	2.9	2.2	2.0	2.9	2.3	2.3

## RIVERS OF TEXAS—SABINE RIVER, LOGANSPORT, LA.

1903												
1							5.0	5.0	4.4	1.0	4.3	3.6
2							5.4	7.5	4.0	1.0	4.2	3.6
3							6.5	9.5	3.7	1.0	4.1	3.4
4							7.9	11.5	3.4	1.0	4.0	3.4
5							9.3	12.4	3.0	1.5	3.8	3.3
6							11.6	12.9	2.5	3.5	3.6	3.3
7							13.4	13.1	2.2	4.6	3.4	3.2
8							14.0	11.4	2.2	5.6	3.2	3.2
9							14.0	9.4	2.0	6.5	3.2	3.2
10							14.2	8.0	2.0	8.0	3.5	3.1
11							14.5	6.2	2.0	8.6	4.0	3.0
12							15.0	4.8	1.9	9.0	5.0	3.4
13							15.2	4.0	1.8	9.3	5.4	3.8
14							15.7	3.7	1.7	9.5	5.6	4.2
15							16.1	3.4	1.7	9.7	5.2	4.3
16							16.6	3.1	1.7	9.8	4.8	4.4
17							16.8	3.1	1.7	10.0	4.3	4.1
18							16.8	3.1	1.6	9.7	4.1	3.7
19							16.8	3.4	1.5	9.2	4.0	3.2
20							16.9	3.6	1.4	8.5	4.0	3.1
21							17.0	4.8	1.3	7.5	4.0	3.0
22							17.3	6.0	1.3	6.8	4.0	3.0
23							17.5	8.0	1.3	6.5	4.0	3.0
24							17.9	10.0	1.3	6.2	3.9	3.0
25							17.9	10.0	1.2	5.6	3.8	3.6
26							16.5	9.6	1.1	5.0	3.7	4.0
27							12.9	8.2	1.1	5.0	3.7	4.0
28							8.4	7.2	1.0	4.9	3.7	4.0
29							5.7	6.0	1.0	4.8	3.6	4.0
30							4.5	5.5	1.0	4.6	3.6	4.0
31							4.0	4.8		4.4		4.0
Means							12.9	7.1	1.9	6.1	4.1	3.6

<sup>a</sup> Maximum stage, 23.3.

## DESCRIPTION OF RIVER GAGES, ETC.

## RIVERS OF TEXAS—SABINE RIVER, LOGANSPORT, LA.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	4.0	6.3	6.5	10.5	9.4	3.0	5.0	5.0	0.4	1.2	0.1	1.0
2.....	3.9	6.0	6.0	11.0	8.0	3.0	5.2	4.6	0.4	1.2	0.1	1.0
3.....	3.8	5.6	5.4	11.2	6.2	3.0	6.0	4.2	0.2	1.0	0.2	1.0
4.....	3.7	5.0	5.0	11.4	6.0	3.0	6.4	3.6	0.2	0.8	0.6	1.0
5.....	3.6	4.5	4.6	11.0	7.0	2.6	7.6	3.0	0.4	0.8	0.6	1.0
6.....	3.5	4.0	4.4	10.9	7.2	2.2	8.2	2.8	0.6	0.8	0.6	1.0
7.....	3.5	3.5	4.2	10.2	8.2	2.0	8.2	4.6	0.4	0.8	0.6	1.0
8.....	3.4	3.2	4.0	12.5	8.0	2.6	8.4	4.4	0.4	0.8	0.6	1.0
9.....	3.3	3.0	3.9	16.8	8.2	3.6	8.2	3.6	0.4	0.7	0.6	0.8
10.....	3.2	3.4	3.7	18.0	9.0	5.0	7.6	3.4	0.6	0.7	0.6	0.8
11.....	3.1	3.5	3.4	18.2	10.0	8.2	7.2	2.6	0.8	0.7	0.6	0.8
12.....	3.0	3.5	3.2	18.4	10.8	10.4	6.2	2.6	1.0	0.8	0.6	0.8
13.....	2.9	3.4	3.0	18.6	11.4	12.2	5.6	2.8	1.6	0.8	0.6	0.8
14.....	2.8	3.3	3.0	17.8	11.8	13.4	5.0	2.6	2.4	0.8	0.6	0.8
15.....	2.7	3.1	3.0	17.2	12.0	14.3	4.6	2.4	2.8	0.8	0.6	0.8
16.....	2.6	3.0	3.0	16.4	12.2	14.2	4.0	3.2	2.8	0.7	0.6	0.8
17.....	2.5	3.0	3.0	15.6	12.3	13.8	3.4	3.4	2.6	0.7	0.6	0.8
18.....	2.4	3.0	3.0	15.8	12.6	13.4	3.0	3.2	2.4	0.7	0.7	0.6
19.....	2.4	3.4	3.2	15.6	12.8	13.4	2.6	3.0	2.2	0.8	0.6	0.6
20.....	2.4	3.6	3.5	15.8	13.0	13.6	2.2	2.8	2.0	0.8	0.8	0.6
21.....	2.4	4.5	3.8	16.2	13.2	13.8	2.0	2.4	2.0	0.8	1.0	0.6
22.....	2.5	6.8	4.0	16.6	13.4	14.0	1.8	2.0	2.4	0.8	0.9	0.6
23.....	2.6	8.2	6.8	16.8	13.2	13.6	2.0	1.8	2.6	0.7	0.9	0.6
24.....	2.9	9.0	9.0	17.4	11.4	11.8	4.0	1.4	2.5	0.7	0.9	0.8
25.....	3.3	10.2	9.3	17.6	8.6	9.4	4.6	1.4	2.4	0.7	0.9	1.0
26.....	4.0	9.6	9.0	17.8	6.4	8.0	5.0	1.2	2.3	0.8	1.0	2.0
27.....	4.8	9.2	9.0	18.0	4.6	6.6	5.6	1.2	2.2	0.4	1.3	20.2
28.....	5.0	8.2	9.4	18.2	4.2	5.4	6.0	0.8	1.8	0.3	1.3	25.0
29.....	5.4	7.3	10.0	17.6	3.6	5.0	6.2	0.8	1.6	0.2	1.3	26.8
30.....	5.8		10.3	14.2	3.2	4.8	6.0	0.6	1.4	0.1	1.4	26.6
31.....	6.5		10.5		3.0		5.6	0.6		0.1		25.8
Means.	3.5	5.2	5.5	15.4	9.1	8.3	5.3	2.6	1.5	0.7	0.7	4.7

## RIVERS OF TEXAS—SABINE RIVER, ORANGE, TEX.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1903												
1.....							1.4	1.0	1.0	1.0	-0.9	-0.6
2.....							1.9	1.0	1.0	1.0	-0.9	-0.6
3.....							2.0	1.0	1.0	1.0	-0.9	-0.6
4.....							2.2	1.6	1.3	-0.1	-0.9	-0.6
5.....							1.8	1.3	1.3	-0.2	-0.9	-0.7
6.....							1.6	1.5	1.3	-0.4	-0.6	-0.7
7.....							1.0	1.3	1.3	-0.6	-0.6	-0.7
8.....							1.0	1.7	1.3	-0.6	-0.6	-0.7
9.....							1.0	1.6	1.2	-0.6	-0.6	-0.8
10.....							1.2	1.3	1.1	-0.6	-0.6	-0.8
11.....							1.0	1.3	1.1	-0.8	-0.6	-0.8
12.....							1.0	1.3	1.1	-0.8	-0.6	-0.8
13.....							0.8	1.9	1.1	-0.8	-0.6	-0.8
14.....							0.6	1.9	1.0	-0.6	-0.6	-0.8
15.....							0.7	1.7	1.0	-0.6	-0.6	-1.0
16.....							0.7	1.7	1.0	-0.6	-0.6	-1.0
17.....							0.7	1.7	1.0	-0.8	-0.6	-1.0
18.....							0.7	1.7	1.0	-0.8	-0.6	-1.0
19.....							0.6	1.7	1.0	-0.8	-0.6	-1.0
20.....							0.6	1.7	1.0	-0.6	-0.6	-1.0
21.....							0.5	1.5	1.0	-0.6	-0.6	-1.0
22.....							0.8	1.5	1.0	-0.6	-0.6	-1.0
23.....							0.9	1.5	1.0	-0.6	-0.6	-1.0
24.....							0.9	1.0	1.0	-0.7	-0.6	-1.2
25.....							0.9	1.0	1.0	-0.7	-0.6	-1.2
26.....							1.0	1.0	1.0	-0.7	-0.4	-1.2
27.....							1.0	1.0	1.0	-0.7	-0.4	-1.2
28.....							1.0	1.4	1.0	-0.9	-0.4	-1.2
29.....							1.0	1.4	1.0	-0.9	-0.4	-1.4
30.....							1.0	1.0	1.0	-0.9	-0.4	-1.4
31.....							1.0	1.2		-0.9		-1.4
Means.							1.0	1.4	1.1	-0.5	-0.6	-0.9

## RIVERS OF TEXAS—SABINE RIVER, ORANGE, TEX. —Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1	-1.4	-1.4	-1.8	-0.6	1.0	1.3	1.0	0.4	-0.4			
2	-1.4	-1.4	-1.8	-0.6	1.0	1.3	1.0	0.4	-0.4			
3	-1.4	-1.4	-1.8	-0.2	1.0	1.3	1.0	0.4	-0.4			
4	-1.4	-1.4	-1.8	-0.2	1.0	1.3	1.0	0.4	-0.4			
5	-1.4	-1.4	-1.8	-0.2	1.0	1.3	1.0	0.4	-0.4			
6	-1.4	-1.4	-1.8	-0.2	1.0	1.3	1.0	0.4	-0.4			
7	-1.4	-1.4	-1.4	-0.2	1.0	1.3	1.0	0.4	-0.4			
8	-1.4	-1.6	-1.4	-0.2	1.0	1.3	1.0	0.4	-0.4			
9	-1.4	-1.6	-1.4	-0.2	1.0	1.3	1.0	0.2	-0.2			
10	-1.6	-1.6	-1.4	-0.2	1.0	1.3	1.0	0.2	-0.2			
11	-1.6	-1.6	-1.4	-0.2	1.0	1.0	1.0	0.2	-0.2			
12	-1.6	-1.6	-1.4	-0.2	1.0	1.0	1.0	0.2	-0.2			
13	-1.6	-1.6	-1.4	-0.2	1.0	1.0	1.0	0.2	-0.2			
14	-1.6	-1.6	-1.4	-0.2	1.0	1.0	1.0	0.2	-0.2			
15	-1.6	-1.6	-1.4	-0.2	1.5	1.0	1.0	0.2	-0.2			
16	-1.6	-1.8	-1.4	-0.2	1.8	1.0	1.0	0.2	-0.2			
17	-1.6	-1.8	-1.4	-0.2	1.8	1.0	1.0	0.2	-0.2			
18	-1.8	-1.8	-1.4	-0.2	1.8	1.0	0.8	0.2	-0.2			
19	-1.8	-1.8	-1.4	0.6	1.8	1.0	0.8	0.2	-0.2			
20	-1.6	-1.8	-1.4	0.6	1.8	1.0	0.8	0.2	-0.2			
21	-1.6	-1.8	-1.4	0.6	1.5	1.0	0.8	0.2	-0.2			
22	-1.6	-1.8	-1.4	1.8	1.3	1.0	0.8	0.1	-0.2			
23	-1.6	-1.8	-1.2	1.8	1.3	1.0	0.8	0.1	-0.2			
24	-1.6	-1.8	-1.0	2.0	1.3	1.0	0.8	-0.2	-0.2			
25	-1.6	-1.8	-1.0	2.0	1.3	1.0	0.8	-0.2	-0.2			
26	-1.4	-1.8	-1.0	1.6	1.3	1.0	0.4	-0.2	-0.2			
27	-1.4	-1.8	-1.0	1.6	1.3	1.0	0.4	-0.2	-0.2			
28	-1.4	-1.8	-1.0	1.0	1.3	1.0	0.4	-0.2	-0.2			
29	-1.4	-1.8	-1.0	1.0	1.3	1.0	0.4	-0.2	-0.2			
30	-1.4		-0.6	1.0	1.3	1.0	0.4	-0.2	-0.2			
31	-1.4		-0.6		1.3		0.4	-0.4				
Means.	-1.5	-1.6	-1.3	0.4	1.3	1.1	0.8	0.1	-0.3			

## RIVERS OF TEXAS—NECHES RIVER, ROCKLAND, TEX.

1903												
1						1.8	0.9	1.7	-0.3	0.4	0.2	
2						2.4	0.8	1.5	-0.3	0.4	0.2	
3						2.3	1.0	1.3	0.0	0.4	0.2	
4						2.3	1.1	1.1	-0.1	0.4	0.3	
5						6.5	1.5	0.9	-0.1	0.3	0.4	
6						6.2	2.2	0.8	-0.1	0.4	0.4	
7						7.3	2.2	0.8	-0.2	0.5	0.4	
8						6.8	2.4	0.7	-0.2	0.7	0.4	
9						5.3	2.5	0.5	-0.2	0.7	0.5	
10						4.5	2.6	0.4	0.0	0.7	0.5	
11						3.5	2.8	0.3	1.0	0.6	0.5	
12						3.3	3.0	0.3	1.9	0.6	0.5	
13						2.7	3.2	0.3	2.4	0.6	1.3	
14						2.4	3.3	0.2	2.5	0.5	1.5	
15						2.2	3.5	0.1	2.3	0.5	1.9	
16						1.9	3.7	0.0	2.0	0.5	2.0	
17						1.7	4.0	0.0	1.9	0.5	2.3	
18						1.5	4.3	-0.1	1.5	0.4	2.4	
19						1.3	6.5	-0.1	1.5	0.4	2.4	
20						1.2	6.3	-0.1	1.6	0.4	2.4	
21						1.0	6.3	-0.2	1.5	0.4	2.1	
22						0.9	6.6	0.0	1.6	0.4	1.9	
23						0.8	6.9	0.0	1.6	0.3	1.7	
24						0.6	6.8	-0.1	1.7	0.3	1.7	
25						0.5	6.3	-0.2	1.8	0.3	1.7	
26						0.4	5.7	-0.2	1.7	0.3	1.8	
27						0.3	3.9	-0.2	1.5	0.3	2.1	
28						0.4	2.5	-0.2	1.5	0.3	2.2	
29						0.7	2.1	-0.3	1.5	0.3	2.5	
30						0.8	1.9	-0.3	-0.2	0.3	2.6	
31						1.1	1.8		-0.3		2.6	
Means.						2.4	3.5	0.3	1.0	0.4	1.4	

## DESCRIPTION OF RIVER GAGES, ETC.

## RIVERS OF TEXAS—NECHES RIVER, ROCKLAND, TEX.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	2.6	1.3	4.9	3.5	5.0	1.7	1.5	0.3	-0.4	-0.1	-0.8	-0.3
2.....	2.4	1.3	4.6	4.5	6.1	1.3	1.3	0.2	-0.3	-0.1	-0.8	-0.3
3.....	2.2	1.3	4.5	5.2	6.9	1.1	1.1	0.1	-0.2	-0.2	-0.8	-0.3
4.....	2.0	1.3	4.2	5.0	9.0	1.0	1.0	0.2	-0.2	-0.3	-0.8	-0.2
5.....	1.8	1.3	4.0	4.3	11.1	1.0	1.0	1.2	0.0	-0.4	-0.8	-0.2
6.....	1.7	1.3	4.7	6.5	11.3	0.9	1.0	1.2	-0.1	-0.4	-0.8	-0.2
7.....	1.6	1.3	5.5	7.0	14.0	0.7	1.0	1.3	-0.1	-0.4	-0.8	-0.1
8.....	1.5	1.3	5.0	6.6	14.3	0.7	1.1	1.5	-0.1	-0.3	-0.8	-0.1
9.....	1.5	1.3	4.2	5.8	14.5	0.6	1.4	1.6	-0.1	-0.3	-0.8	-0.2
10.....	1.3	1.5	3.9	5.3	14.5	0.6	1.6	1.6	-0.1	-0.3	-0.8	-0.2
11.....	1.3	1.5	3.5	4.6	14.1	0.5	1.8	2.1	-0.2	-0.3	-0.8	-0.2
12.....	1.3	1.3	3.1	4.0	13.6	1.0	2.0	2.3	-0.2	-0.2	-0.8	-0.2
13.....	1.3	1.3	2.8	3.6	12.6	1.2	1.9	2.1	-0.1	-0.3	-0.8	-0.2
14.....	1.3	1.5	2.4	3.3	11.9	0.9	1.8	1.5	0.0	-0.4	-0.8	-0.2
15.....	1.3	1.4	2.1	3.1	10.8	0.9	1.6	1.1	0.6	-0.5	-0.8	-0.2
16.....	1.3	1.5	1.9	2.9	9.8	0.9	1.5	1.0	0.8	-0.6	-0.8	-0.2
17.....	1.3	1.5	1.7	2.8	8.8	0.9	1.3	0.8	0.4	-0.7	-0.8	-0.2
18.....	1.2	1.5	1.7	2.6	7.6	0.9	1.2	0.7	0.3	-0.7	-0.8	-0.2
19.....	1.2	5.5	1.7	2.6	6.9	1.0	1.1	0.6	0.3	-0.7	-0.8	-0.3
20.....	1.1	5.2	1.6	2.5	6.4	1.2	1.0	0.4	0.2	-0.8	-0.7	-0.3
21.....	1.1	7.7	1.6	2.5	6.0	1.3	0.9	0.2	0.2	-0.7	-0.7	-0.3
22.....	1.1	7.6	1.5	2.5	5.4	1.4	0.8	0.1	0.1	-0.7	-0.7	-0.3
23.....	1.1	7.3	2.7	2.5	4.6	1.5	0.9	0.0	0.1	-0.7	-0.7	-0.3
24.....	1.0	6.5	4.8	2.5	4.4	1.3	1.0	0.0	0.0	-0.7	-0.7	-0.2
25.....	1.0	6.0	6.0	2.9	4.2	1.0	1.5	-0.1	0.0	-0.7	-0.7	-0.2
26.....	1.0	5.7	4.0	3.0	4.2	0.8	1.1	-0.2	0.0	-0.7	-0.6	3.3
27.....	1.1	5.4	3.8	3.6	4.2	1.2	0.5	-0.1	0.0	-0.8	-0.5	8.5
28.....	1.2	5.3	3.8	3.6	4.2	1.6	0.5	-0.3	0.0	-0.8	-0.4	13.0
29.....	1.3	5.0	3.7	3.6	3.3	1.8	0.3	-0.1	0.0	-0.8	-0.4	9.5
30.....	1.3		3.6	3.7	3.0	1.7	0.3	-0.3	0.0	-0.8	-0.3	7.5
31.....	1.3		3.5		2.2		0.3	-0.4		-0.8		5.3
Means.	1.4	3.2	3.5	3.9	8.2	1.1	1.1	0.7	0.0	-0.5	-0.7	1.3

## RIVERS OF TEXAS—NECHES RIVER, BEAUMONT, TEX.

1903												
1.....									0.9	1.5	1.3	0.6
2.....									0.9	1.6	1.0	0.2
3.....									0.9	1.8	1.0	0.9
4.....									0.7	1.8	1.2	1.6
5.....									0.5	1.4	1.1	0.6
6.....									0.8	1.4	1.0	0.2
7.....									1.2	1.4	1.0	0.7
8.....									1.3	1.1	1.0	1.1
9.....									1.3	-0.2	1.0	0.4
10.....									1.4	-0.6	1.0	1.1
11.....									1.6	1.0	1.7	-0.2
12.....									1.7	1.3	0.8	1.1
13.....									1.8	1.0	0.9	-0.2
14.....									1.2	-0.6	1.0	-0.2
15.....									0.8	1.2	1.0	-0.4
16.....									0.2	1.0	1.4	-0.2
17.....									0.6	-0.8	0.8	-0.1
18.....									0.8	-0.2	0.1	0.4
19.....									0.7	1.0	-0.2	1.2
20.....									0.8	1.2	0.7	0.0
21.....									0.9	0.7	0.2	0.3
22.....									0.9	0.9	0.4	0.5
23.....									0.8	1.0	0.7	0.9
24.....									0.8	1.1	1.0	1.0
25.....									0.8	-0.8	1.0	0.0
26.....									1.0	-0.7	-0.3	0.4
27.....									1.0	-0.7	0.0	0.6
28.....									1.0	-0.9	0.7	0.2
29.....									1.1	-0.9	0.9	0.0
30.....									1.5	1.1	0.7	-0.2
31.....										1.3		-0.2
Means.									1.0	0.6	0.8	0.4

## RIVERS OF TEXAS—NECHES RIVER, BEAUMONT, TEX.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1	0.2	-0.5	1.5	2.0	1.5	0.8	0.5	1.0	0.7	1.0	1.4	0.7
2	0.5	0.0	1.4	1.4	1.3	1.3	0.8	0.8	1.2	1.2	1.6	1.0
3	-1.0	0.0	1.4	0.6	1.5	1.9	0.9	0.7	1.2	1.0	1.4	0.8
4	0.0	0.0	0.0	0.6	1.7	1.7	1.0	0.7	1.1	1.0	0.8	-0.2
5	0.0	0.4	1.1	1.1	1.7	2.1	1.0	0.7	1.2	1.1	0.6	0.1
6	0.7	0.5	1.1	1.5	2.0	1.2	1.1	0.6	0.8	1.1	0.5	0.0
7	0.2	0.3	0.0	1.4	2.0	0.5	1.3	0.7	0.9	1.2	0.2	-0.4
8	-0.4	-0.3	0.1	1.4	2.3	0.7	1.4	0.7	1.1	1.5	0.4	-0.1
9	-0.1	0.1	0.7	0.9	2.3	0.5	1.4	0.9	1.0	2.0	0.8	0.5
10	0.0	-0.1	1.2	0.5	2.7	1.0	1.3	1.0	1.2	2.1	0.2	-0.1
11	-0.5	-1.0	0.8	1.0	2.7	0.8	1.2	1.1	1.2	1.8	-0.3	0.2
12	-0.2	-0.4	0.9	1.1	3.0	0.7	1.0	1.1	1.3	1.4	-0.3	0.2
13	-0.8	0.5	1.2	0.6	2.9	0.5	1.0	1.2	1.5	1.0	0.1	0.2
14	-0.9	0.1	-0.1	0.8	2.8	1.2	1.3	1.2	1.4	1.2	-0.2	0.1
15	-0.2	0.0	0.5	1.3	2.9	1.5	1.1	1.2	1.2	1.5	0.3	-0.5
16	0.0	0.6	0.8	1.4	2.9	1.5	1.2	0.7	1.0	1.8	0.6	0.1
17	-0.5	1.0	1.6	1.7	2.6	0.9	1.0	0.8	1.2	2.0	0.6	-0.6
18	0.1	1.4	0.7	1.5	2.1	0.9	1.0	0.9	1.4	2.2	0.8	-0.8
19	0.4	-0.1	1.2	1.0	1.8	0.7	0.9	1.2	1.3	1.8	0.8	-0.6
20	1.0	-0.2	1.5	1.1	1.7	0.9	0.8	1.4	1.2	0.3	1.0	-0.1
21	1.5	0.2	1.0	0.8	1.3	1.7	1.0	1.4	1.4	0.4	1.0	-0.8
22	0.6	0.2	1.2	1.1	1.1	1.6	1.0	1.2	1.4	0.2	0.4	0.5
23	-0.5	0.5	0.8	1.8	0.9	1.7	0.8	0.8	1.4	1.0	0.7	1.7
24	-0.3	0.7	1.1	2.2	1.1	1.7	0.8	0.8	1.6	1.0	0.6	1.0
25	0.5	0.8	1.8	2.0	1.7	1.6	0.6	0.6	1.7	1.5	0.5	0.8
26	-0.2	1.0	1.8	1.2	1.7	1.5	1.0	0.6	1.9	1.6	0.6	1.4
27	-0.8	1.1	0.5	0.6	1.5	1.5	0.9	0.3	1.8	0.8	0.5	0.6
28	-0.4	1.3	0.6	0.8	1.2	1.2	1.0	0.3	2.0	0.8	0.8	-0.9
29	-0.5	1.5	1.8	1.3	1.3	1.1	1.0	0.5	2.0	1.0	1.0	-0.6
30	-0.2		2.4	1.4	1.2	1.0	0.8	0.5	1.3	0.9	0.7	0.2
31	-0.3		2.2		0.7		1.0	0.6		1.5		0.9
Means.	0.0	0.3	1.1	1.2	1.9	1.2	1.0	0.8	1.3	1.3	0.6	0.2

## RIVERS OF TEXAS—TRINITY RIVER, DALLAS, TEX.

1903												
1							8.8	5.7	2.8	9.9	8.3	2.0
2							7.9	4.3	2.5	21.5	10.2	2.0
3							17.7	3.8	2.4	23.5	7.3	2.0
4							22.6	3.3	2.4	20.6	5.1	2.1
5							25.6	3.1	2.5	18.5	4.2	2.1
6							31.5	2.9	2.2	21.1	3.8	2.0
7							32.1	2.9	2.4	23.9	3.5	2.0
8							27.8	2.8	2.2	18.5	3.2	1.9
9							20.2	2.7	2.2	15.5	2.9	1.9
10							11.1	2.5	2.1	12.2	2.7	1.9
11							6.5	2.5	2.1	11.0	2.7	1.9
12							5.8	2.4	2.1	9.3	2.6	1.9
13							5.4	2.4	2.0	6.5	2.5	1.8
14							6.5	2.5	1.9	5.8	2.5	1.8
15							5.5	4.6	1.8	4.2	2.3	1.8
16							4.3	4.7	1.8	4.1	2.2	1.8
17							4.1	4.3	1.8	4.1	2.2	1.8
18							3.8	4.1	1.8	3.8	2.1	1.9
19							3.2	3.6	1.9	3.5	2.1	2.4
20							3.1	3.2	1.9	3.4	2.1	2.2
21							3.3	3.1	1.9	3.1	2.1	2.1
22							3.2	3.0	1.9	2.8	2.1	2.1
23							3.3	2.8	1.9	2.8	2.1	2.2
24							3.0	2.8	1.9	2.7	2.1	2.3
25							3.1	2.7	1.9	2.6	2.1	2.4
26							3.0	2.8	1.8	2.3	2.0	2.4
27							2.9	2.7	1.8	2.3	2.0	2.3
28							2.9	2.7	1.8	2.3	2.0	2.2
29							2.8	2.6	2.3	2.3	2.0	2.2
30							3.7	2.5	3.1	2.2	2.0	2.1
31							8.0	2.6		3.5		2.1
Means.							9.4	3.2	2.1	8.7	3.2	2.1

## RIVERS OF TEXAS—TRINITY RIVER, DALLAS, TEX.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	2.3	2.9	2.0	4.1	6.2	5.5	8.5	3.8	2.3	2.7	5.2	2.3
2.....	2.3	2.8	2.0	3.5	6.8	9.4	7.1	3.7	2.3	2.4	4.3	2.3
3.....	2.2	2.8	2.0	3.2	5.2	10.7	4.4	3.8	2.5	3.0	3.7	2.3
4.....	2.2	2.7	1.9	2.9	15.1	20.9	3.8	3.8	2.7	2.8	3.4	2.2
5.....	2.2	2.8	1.9	3.2	23.0	24.5	3.8	3.9	2.9	2.7	3.2	2.2
6.....	2.1	5.2	1.9	7.5	17.8	23.8	6.3	3.9	6.2	2.5	2.9	2.5
7.....	2.1	6.1	1.9	6.8	19.5	20.1	4.5	5.1	6.9	2.5	2.8	2.4
8.....	2.3	4.8	1.9	14.6	21.8	17.9	3.8	10.4	3.4	2.5	2.7	2.4
9.....	2.2	4.1	1.9	18.0	15.1	16.1	3.2	7.3	4.4	2.4	2.6	2.3
10.....	2.1	3.7	1.8	24.8	13.2	14.8	2.9	6.2	6.8	2.5	2.4	2.3
11.....	2.1	3.4	1.8	25.9	8.3	12.1	2.8	5.7	6.6	2.4	2.4	2.3
12.....	2.1	3.1	1.8	14.2	7.2	19.4	2.6	6.3	4.9	2.3	2.4	2.2
13.....	2.1	2.9	1.9	7.1	6.1	20.0	2.7	7.6	3.9	2.3	2.4	2.2
14.....	2.1	2.5	2.2	6.3	4.5	16.7	2.5	6.8	3.4	2.4	2.4	2.2
15.....	2.1	2.4	2.3	5.5	3.2	11.8	2.1	5.9	3.2	2.3	2.6	2.2
16.....	2.1	2.4	2.1	4.9	3.1	10.9	2.2	1.8	6.0	2.1	2.5	2.4
17.....	2.1	2.3	3.5	7.1	3.0	8.5	2.1	3.6	7.9	2.1	2.4	2.4
18.....	2.0	2.3	6.8	4.3	13.8	6.3	2.0	3.2	6.5	2.2	2.4	2.4
19.....	2.0	2.2	5.4	3.9	8.1	5.3	2.7	3.0	4.6	2.3	2.3	2.3
20.....	2.0	2.2	14.5	3.2	5.2	4.6	2.4	2.9	3.7	2.3	2.6	2.3
21.....	2.2	2.2	21.0	2.9	4.9	4.1	2.2	2.8	3.3	2.3	2.4	2.2
22.....	2.5	2.1	24.7	2.7	4.5	3.7	2.5	2.7	3.8	2.2	2.4	2.4
23.....	5.7	2.1	17.2	3.0	4.2	6.2	2.4	2.7	3.1	2.3	2.3	2.4
24.....	5.6	2.1	10.1	3.6	4.0	6.0	4.0	2.5	2.9	2.2	2.3	2.4
25.....	5.1	2.1	5.2	4.1	3.6	7.7	3.6	2.5	2.8	2.9	2.2	2.4
26.....	4.2	2.1	24.8	3.9	3.5	6.3	2.8	2.4	2.5	3.4	2.2	2.3
27.....	3.1	2.0	27.0	3.6	3.7	4.6	2.4	2.5	2.5	11.2	2.4	2.3
28.....	2.7	2.0	24.0	3.4	6.8	3.8	2.3	2.2	2.4	12.8	2.4	2.2
29.....	3.4	2.0	10.2	3.9	5.4	4.1	2.2	2.6	2.9	6.2	2.3	2.2
30.....	4.5		7.5	4.1	4.9	9.4	2.1	2.1	3.0	3.9	2.3	2.2
31.....	3.7		5.6		6.6		2.2	2.3		6.5		2.2
Means.	2.8	2.8	7.7	6.9	8.3	11.2	3.3	4.2	4.0	3.4	2.7	2.3

## RIVERS OF TEXAS—TRINITY RIVER, RIVERSIDE, TEX.

1903												
1.....							4.5	6.4	1.8	0.3	1.9	0.6
2.....							6.7	11.3	2.7	0.5	1.9	0.6
3.....							10.6	14.0	2.7	0.8	2.3	0.6
4.....							11.0	16.8	2.0	1.1	2.1	0.6
5.....							15.0	18.7	1.8	2.4	2.1	0.6
6.....							12.7	19.7	1.5	5.7	2.2	0.6
7.....							11.7	20.7	1.5	9.0	3.5	0.6
8.....							11.9	21.7	1.4	11.2	4.2	0.6
9.....							12.6	22.7	1.0	12.2	4.0	0.6
10.....							13.4	23.5	0.8	12.8	3.4	0.6
11.....							14.0	24.0	0.6	13.5	2.9	0.6
12.....							14.5	24.0	0.5	13.9	2.4	1.6
13.....							14.7	22.9	0.4	14.1	2.0	5.5
14.....							15.2	17.6	0.4	14.0	1.8	7.1
15.....							15.6	8.0	0.3	13.6	1.5	6.6
16.....							15.9	3.5	0.2	13.3	1.4	6.0
17.....							16.1	2.3	0.2	12.3	1.2	4.5
18.....							16.3	1.8	1.1	11.2	1.1	2.3
19.....							16.5	1.8	0.5	10.5	1.1	1.8
20.....							16.7	2.4	0.2	10.3	1.0	1.8
21.....							16.9	2.3	0.1	10.6	0.9	3.1
22.....							17.1	2.3	0.1	10.3	0.8	2.8
23.....							17.3	2.1	0.0	8.9	0.8	2.8
24.....							17.2	1.8	-0.1	7.6	0.7	2.0
25.....							15.6	1.8	-0.1	5.5	0.7	2.5
26.....							10.9	1.8	-0.2	4.0	0.7	4.5
27.....							5.6	1.7	-0.2	3.0	0.7	5.0
28.....							2.9	1.5	-0.2	2.5	0.7	4.8
29.....							2.6	1.2	-0.2	2.0	0.6	3.8
30.....							2.6	1.0	-0.2	1.8	0.6	2.5
31.....							3.0	0.8		1.7		1.9
Means.							12.2	9.7	0.7	7.8	1.7	2.6

a 27.2 at 1 p. m.



## RIVERS OF TEXAS—TRINITY RIVER, RIVERSIDE, TEX.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1	1.7	2.5	4.2	10.0	8.3	3.4	3.3	1.6	-0.3	1.6	-0.7	0.1
2	1.7	2.2	3.2	10.4	8.4	2.9	3.2	1.5	-0.4	1.2	-0.7	0.0
3	1.5	1.9	2.5	11.8	7.0	3.8	2.9	1.2	-0.5	1.0	1.8	-0.1
4	1.5	1.7	2.2	13.1	16.0	4.6	2.9	1.0	-0.6	0.6	3.1	-0.1
5	1.4	1.6	1.9	15.1	15.5	4.3	4.5	0.8	-0.6	0.2	2.5	-0.1
6	1.3	1.5	1.7	14.8	17.3	3.8	5.3	0.5	-0.3	0.1	1.8	-0.1
7	1.2	1.5	1.6	13.3	24.5	3.5	5.5	0.4	-0.3	0.1	1.2	-0.1
8	1.2	2.3	1.5	11.3	25.2	4.6	5.8	0.8	0.5	0.1	0.9	-0.1
9	1.2	2.6	1.4	9.3	25.5	7.1	5.8	2.4	4.8	0.1	0.9	-0.2
10	1.3	2.8	1.4	7.5	24.2	8.8	5.5	3.8	6.2	0.0	0.8	-0.2
11	1.3	2.5	1.3	7.0	22.2	10.5	5.0	3.2	6.9	0.2	0.7	-0.2
12	1.3	2.4	1.2	7.8	20.0	11.5	4.3	3.2	6.3	0.3	0.5	-0.2
13	1.3	2.5	1.2	8.4	18.8	12.1	3.3	3.2	5.3	-0.4	0.4	-0.2
14	1.2	2.9	1.1	8.7	18.3	12.8	2.5	3.4	3.5	-0.5	0.2	-0.3
15	1.1	3.0	1.0	9.3	18.3	13.2	1.9	3.3	2.3	-0.5	0.1	-0.3
16	1.1	2.8	1.0	9.8	18.8	13.8	1.5	2.8	1.5	-0.5	0.0	-0.3
17	1.0	2.5	0.9	10.4	19.2	14.5	1.4	2.3	1.0	-0.6	-0.1	-0.3
18	0.9	2.3	1.0	10.8	19.7	14.8	1.1	1.9	1.5	-0.6	-0.2	-0.3
19	0.9	4.4	0.9	10.8	20.1	15.1	0.8	1.6	1.4	-0.6	-0.2	-0.3
20	0.9	10.1	1.0	10.8	20.2	15.4	0.8	1.6	1.2	-0.6	-0.2	-0.3
21	0.8	12.4	1.4	11.1	20.1	15.6	0.8	1.8	1.0	-0.6	-0.2	-0.3
22	0.9	12.8	1.4	11.4	19.1	15.3	0.8	1.7	0.8	-0.7	-0.2	-0.3
23	0.9	12.6	1.9	12.2	15.8	14.9	0.7	1.5	0.7	-0.7	-0.2	-0.2
24	1.1	11.6	1.4	12.9	9.8	13.7	1.5	1.0	1.7	-0.7	-0.2	0.0
25	1.2	9.8	1.8	12.4	6.0	11.7	1.5	0.7	2.2	-0.7	-0.2	0.3
26	1.3	8.7	2.8	10.4	4.4	9.0	1.0	0.5	1.8	-0.7	-0.2	3.9
27	1.2	8.0	5.8	9.4	4.0	6.5	0.8	0.4	1.8	-0.7	-0.2	11.6
28	1.3	6.6	7.8	9.4	5.9	4.8	1.8	0.3	1.8	-0.7	-0.2	11.8
29	2.3	5.3	9.0	9.2	6.5	3.8	1.1	0.1	1.8	-0.7	-0.2	12.4
30	3.0		9.7	8.5	4.5	3.5	1.6	0.0	1.7	-0.7	0.0	9.8
31	2.9		9.9		4.0		1.8	-0.1		-0.7		5.7
Means	1.4	5.0	2.7	10.6	15.1	9.3	2.6	1.6	1.8	-0.2	0.4	1.6

## RIVERS OF TEXAS—TRINITY RIVER, LIBERTY, TEX.

1903												
1										4.5	5.9	4.0
2										4.4	5.7	4.0
3										4.2	5.6	4.1
4										4.9	5.5	4.5
5										4.8	5.4	4.0
6										4.7	5.3	3.8
7										5.5	5.2	3.9
8										4.6	5.1	4.0
9										6.7	5.0	3.8
10										10.1	5.9	3.7
11										12.0	6.6	3.6
12										13.0	6.5	4.1
13										13.6	6.5	3.9
14										14.1	6.1	4.0
15										14.7	6.7	6.0
16										14.9	5.7	7.0
17										15.0	5.4	9.0
18										14.8	4.8	9.1
19										14.4	4.5	8.6
20										13.6	4.4	7.6
21									4.0	12.8	4.3	6.6
22									4.3	12.3	4.4	5.6
23									4.1	12.2	4.5	5.4
24									3.9	12.1	4.4	5.6
25									3.8	11.7	4.3	5.8
26									4.0	10.8	4.2	5.7
27									4.3	9.6	4.1	5.6
28									4.2	8.4	4.0	6.0
29									4.4	7.4	3.9	7.2
30									4.7	6.6	3.8	7.6
31										6.0		8.1
Means										9.8	5.1	5.5

## RIVERS OF TEXAS—TRINITY RIVER, LIBERTY, TEX.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	7.1	4.4	10.8	10.4	11.3	8.5	8.0	4.5	4.0	5.0	4.8	3.8
2.....	6.7	4.9	9.3	11.7	11.2	8.2	7.1	4.5	4.3	4.9	4.9	4.4
3.....	5.7	5.3	8.4	12.7	11.5	7.7	6.7	4.6	4.4	4.8	4.0	3.8
4.....	5.0	5.2	7.4	12.7	11.9	7.4	6.5	4.6	4.0	4.4	3.9	3.3
5.....	5.0	5.1	6.6	13.3	13.4	7.0	6.3	4.4	3.7	4.3	3.8	3.7
6.....	5.0	5.0	6.4	14.3	19.0	6.8	6.3	4.3	3.6	4.1	3.6	3.4
7.....	4.9	4.9	5.7	15.3	20.8	6.9	6.5	4.1	3.6	4.0	3.4	3.0
8.....	4.7	4.6	5.6	17.5	21.9	6.8	7.0	3.9	3.8	3.8	5.0	3.0
9.....	4.6	4.5	5.3	17.3	22.7	6.6	7.7	4.0	4.4	4.8	4.7	3.2
10.....	4.8	4.4	5.7	15.3	23.4	6.4	7.9	4.1	4.4	5.0	4.6	3.3
11.....	4.4	4.3	5.3	14.7	23.7	7.0	8.1	4.4	4.1	4.9	4.0	3.0
12.....	4.3	4.7	5.0	11.8	23.8	9.0	8.1	4.5	5.5	4.7	3.9	3.2
13.....	4.3	5.2	5.1	10.4	23.8	10.8	7.8	5.8	7.5	4.5	3.7	3.0
14.....	4.2	5.4	4.5	9.9	23.7	11.9	7.4	6.2	8.1	4.3	3.6	3.5
15.....	4.1	5.0	4.5	10.3	23.0	12.7	6.9	6.1	8.3	4.4	3.4	2.8
16.....	4.3	5.1	4.6	10.5	22.0	13.4	6.3	5.8	7.7	4.7	3.4	3.0
17.....	4.2	5.4	4.8	10.7	21.0	13.7	5.8	5.8	6.5	5.0	3.3	2.8
18.....	4.1	5.7	4.7	11.0	20.2	14.2	5.4	5.9	5.8	5.4	3.5	2.8
19.....	4.3	5.8	4.6	11.4	19.8	14.6	5.1	5.6	5.3	4.8	3.8	3.0
20.....	4.5	6.2	5.2	11.8	19.7	15.0	4.8	5.4	4.8	4.0	4.0	3.0
21.....	4.8	7.8	5.1	12.0	19.8	15.4	4.6	5.2	4.7	3.8	4.3	3.0
22.....	4.4	11.0	5.3	12.3	19.9	15.8	4.5	4.9	4.6	3.7	4.0	3.4
23.....	4.0	14.3	4.8	12.6	19.9	16.0	4.3	4.5	4.5	3.4	4.0	3.8
24.....	3.9	15.3	5.3	13.0	19.9	16.0	4.0	4.2	4.7	3.9	3.8	4.0
25.....	4.4	15.3	6.1	13.6	19.0	15.9	4.1	4.4	4.9	4.9	3.5	3.8
26.....	4.0	14.3	6.7	13.7	16.7	15.5	4.5	4.4	5.0	4.0	3.7	4.5
27.....	3.9	13.3	5.7	13.8	13.0	14.5	4.6	4.2	4.9	3.9	3.5	4.8
28.....	3.9	11.9	4.9	13.4	10.0	12.9	4.7	3.9	5.2	4.0	3.8	14.8
29.....	4.0	11.0	5.2	12.4	8.4	11.0	4.5	4.0	5.5	3.5	4.0	16.8
30.....	4.1		7.9	11.7	7.4	9.4	4.4	4.3	5.7	4.0	4.0	17.0
31.....	4.2		9.4		7.0		4.3	4.1		4.2		16.0
Means.	4.6	7.4	6.0	12.7	17.7	11.2	5.9	4.7	5.1	4.4	3.9	5.1

## RIVERS OF TEXAS—BRAZOS RIVER, KOPPERL, TEX.

1900												
1.....									-1.2	8.4	2.0	1.2
2.....									-1.4	5.0	1.8	1.2
3.....									-1.8	4.0	2.3	1.2
4.....									-2.0	3.5	2.8	1.2
5.....									-2.0	3.0	3.0	1.1
6.....									1.0	2.6	2.5	1.0
7.....									0.5	2.4	2.0	1.0
8.....									0.0	2.2	1.6	1.0
9.....									0.2	2.0	1.2	0.8
10.....									0.7	1.8	1.2	0.7
11.....									0.6	1.6	1.1	0.6
12.....									4.6	1.3	1.0	0.5
13.....								0.7	4.0	1.0	1.9	0.4
14.....								2.0	3.5	1.0	1.8	0.4
15.....								2.8	2.9	0.8	1.8	0.4
16.....								0.1	2.9	0.6	1.7	0.4
17.....								0.1	6.9	0.2	1.6	0.4
18.....								0.1	3.8	0.0	1.6	0.4
19.....								0.0	2.9	0.0	1.6	0.4
20.....								-0.1	6.2	-0.2	1.5	0.2
21.....								-0.2	4.0	3.0	1.5	0.2
22.....								-0.2	5.0	5.0	1.5	0.0
23.....								-0.3	15.5	4.6	1.4	0.0
24.....								-0.3	19.0	4.8	1.2	0.0
25.....								-0.4	18.0	3.2	1.2	0.0
26.....								-0.5	20.0	3.0	1.2	0.0
27.....								-0.6	22.0	2.2	1.2	0.0
28.....								-0.8	20.2	2.0	1.2	0.0
29.....								-1.0	13.6	1.8	1.2	0.0
30.....								-1.0	10.0	1.7	1.2	0.0
31.....								-1.0		4.2		0.0
Means.								0.0	6.0	2.5	1.6	0.5

## RIVERS OF TEXAS—BRAZOS RIVER, KOPPERL, TEX.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1901</b>												
1.....	-0.1	-0.2	-0.2	-0.2	0.0	1.0	0.2	1.8	0.0	-0.2	-1.0	-0.4
2.....	-0.1	-0.2	-0.2	1.8	0.0	1.5	0.1	1.8	0.0	-0.2	-1.0	-0.5
3.....	-0.1	-0.2	-0.2	1.0	0.0	6.5	0.0	1.7	0.0	-0.2	-1.0	-0.6
4.....	-0.1	-0.2	-0.2	0.6	0.0	3.5	-0.2	1.6	0.0	-0.1	-1.0	-0.7
5.....	-0.1	-0.2	-0.2	1.0	0.0	2.5	-0.2	1.5	0.0	-0.1	-1.0	-0.8
6.....	-0.2	-0.2	-0.2	1.0	0.0	2.0	-0.2	1.0	0.0	-0.1	-1.0	-0.9
7.....	-0.2	-0.2	-0.2	1.0	0.0	2.5	-0.2	0.6	0.0	-0.1	-1.0	-1.0
8.....	-0.2	-0.2	-0.2	1.0	0.0	2.0	-0.2	0.4	0.0	-0.1	-1.0	-1.1
9.....	-0.2	-0.2	-0.2	1.0	0.0	1.5	-0.2	0.4	0.0	-0.1	-1.0	-1.2
10.....	-0.2	-0.2	-0.2	1.0	0.0	0.5	-0.2	0.4	0.0	1.4	-1.0	-1.3
11.....	-0.2	-0.2	-0.2	1.0	0.0	0.5	-0.2	0.3	0.0	1.0	-1.0	-1.4
12.....	-0.2	-0.2	-0.2	1.0	0.0	0.5	-0.2	0.3	0.0	0.5	-1.0	-1.5
13.....	-0.2	-0.2	-0.2	1.0	0.0	0.5	-0.2	0.2	3.5	0.0	1.4	-1.6
14.....	-0.2	-0.2	-0.2	1.0	0.0	0.5	-0.2	0.2	1.5	-0.5	1.0	-1.6
15.....	-0.2	-0.2	-0.2	1.0	0.0	0.5	-0.2	0.2	1.0	-1.0	0.6	-1.6
16.....	-0.2	-0.2	-0.2	1.0	0.0	0.5	-0.2	0.2	0.8	-1.0	0.2	-1.6
17.....	-0.2	-0.2	-0.2	1.0	6.0	0.5	-0.2	0.2	0.6	-1.0	-0.2	-1.6
18.....	-0.2	-0.2	-0.2	1.2	3.0	0.5	-0.2	0.2	0.5	-1.0	-0.4	-1.6
19.....	-0.2	-0.2	-0.2	1.0	2.0	0.5	-0.2	0.1	0.4	-1.0	-0.4	-1.6
20.....	-0.2	-0.2	-0.2	1.0	1.5	0.5	-0.2	0.1	0.2	-1.0	-0.4	-1.6
21.....	-0.2	-0.2	-0.2	1.0	2.5	0.5	-0.2	0.1	0.0	-1.0	-0.4	-1.6
22.....	-0.2	-0.2	-0.2	0.9	2.0	0.5	-0.2	0.1	0.0	-1.0	-0.4	-1.6
23.....	-0.2	-0.2	-0.2	0.7	2.0	0.5	-0.2	0.0	-0.1	-1.0	-0.4	-1.6
24.....	-0.2	-0.2	-0.2	0.5	1.0	0.5	-0.2	0.0	-0.2	-1.0	-0.4	-1.6
25.....	-0.2	-0.2	-0.2	0.2	1.0	0.5	-0.2	0.0	-0.2	-1.0	-0.4	-1.6
26.....	-0.2	-0.2	-0.2	0.2	1.0	0.5	-0.2	0.0	-0.2	-1.0	-0.4	-1.6
27.....	-0.2	-0.2	-0.2	0.2	1.0	0.5	-0.2	0.0	-0.1	-1.0	-0.4	-1.6
28.....	-0.2	-0.2	-0.2	0.0	1.0	0.5	-0.2	0.0	-0.1	-1.0	-0.4	-1.6
29.....	-0.2	.....	-0.2	0.0	1.0	0.5	-0.2	0.0	-0.2	-1.0	-0.4	-1.6
30.....	-0.2	.....	-0.2	0.0	1.0	0.5	-0.2	0.0	-0.2	-1.0	-0.4	-1.6
31.....	-0.2	.....	-0.2	.....	1.5	.....	-0.2	0.0	.....	-1.0	.....	-1.6
Means.	-0.2	-0.2	-0.2	0.7	0.9	1.1	-0.2	0.4	0.2	-0.5	-0.5	-1.3
<b>1902</b>												
1.....	-1.6	-1.6	-1.6	0.0	-0.4	2.8	0.2	7.0	-2.0	0.8	-1.4	1.8
2.....	-1.6	-1.6	-1.6	-0.2	-0.4	5.3	0.0	4.5	-2.0	0.8	-1.4	1.8
3.....	-1.6	-1.6	-1.6	-0.2	-0.4	3.5	0.0	3.6	-1.0	1.2	-1.4	2.0
4.....	-1.6	-1.6	-1.6	-0.2	-0.4	5.0	0.0	2.8	-1.0	3.9	-1.4	1.4
5.....	-1.6	-1.6	-1.6	-0.4	-0.4	3.4	1.5	2.0	-1.0	2.1	-1.4	1.2
6.....	-1.6	-1.6	-1.6	-0.4	-0.4	2.8	0.0	1.5	-1.0	1.5	3.5	1.0
7.....	-1.6	-1.6	-1.6	-0.4	-0.4	1.4	0.0	1.0	0.0	1.0	3.0	1.0
8.....	-1.6	-1.6	-1.6	-0.4	4.5	0.6	0.2	1.0	0.0	0.6	3.0	1.0
9.....	-1.6	-1.6	-1.6	1.6	3.5	0.4	0.2	0.5	0.0	0.4	3.0	1.0
10.....	-1.6	-1.6	-1.6	0.6	2.5	0.4	0.0	0.0	6.0	0.2	3.0	1.0
11.....	-1.6	-1.6	-1.6	0.2	2.0	0.0	0.0	-0.2	4.0	0.0	3.0	1.0
12.....	-1.6	-1.6	-0.2	0.0	1.5	0.0	0.0	-0.4	2.0	-0.2	2.8	1.0
13.....	-1.6	-1.6	-0.6	-0.2	1.0	0.0	0.4	-0.6	2.0	-0.4	2.6	1.0
14.....	-1.6	-1.6	-0.8	-0.4	2.4	0.0	0.2	-0.8	1.5	-0.6	2.5	1.0
15.....	-1.6	-1.6	4.4	-0.4	0.4	0.0	0.0	-1.0	1.0	-0.8	2.5	1.0
16.....	-1.6	-1.6	2.5	-0.4	0.0	0.0	1.0	-1.2	0.5	-1.0	2.5	1.0
17.....	-1.6	-1.6	1.5	-0.4	0.0	0.0	0.0	-1.4	0.0	-1.2	3.8	0.8
18.....	-1.6	-1.6	0.0	-0.4	0.0	0.0	0.4	-1.6	0.0	-1.4	2.4	0.6
19.....	-1.6	-1.6	0.0	-0.4	3.0	0.0	0.0	-1.8	0.0	-1.4	2.2	0.4
20.....	-1.6	-1.6	0.0	-0.4	5.0	-0.2	0.0	-2.0	0.0	-1.4	2.2	0.2
21.....	-1.6	-1.6	0.0	-0.4	3.6	-0.2	1.8	-2.0	0.0	-1.4	2.2	0.0
22.....	-1.6	-1.6	0.0	-0.4	3.0	-0.2	8.0	-2.0	0.0	-1.4	2.8	0.0
23.....	-1.6	-1.6	0.0	-0.4	3.0	-0.2	6.0	-2.0	0.0	-1.4	2.4	0.0
24.....	-1.6	-1.6	0.0	-0.4	5.0	-0.2	8.0	-2.0	0.0	-1.4	2.4	0.0
25.....	-1.6	-1.6	0.0	-0.4	4.4	1.0	13.0	-2.0	0.0	-1.4	4.0	0.0
26.....	-1.6	-1.6	0.0	-0.4	4.0	1.0	21.0	-2.0	0.0	-1.4	2.5	0.0
27.....	-1.6	-1.6	0.0	-0.4	3.6	0.6	20.0	-2.0	2.8	-1.4	2.0	0.0
28.....	-1.6	-1.6	0.0	-0.4	3.4	0.4	21.0	-2.0	1.8	-1.4	1.6	-0.2
29.....	-1.6	.....	2.0	-0.4	3.2	0.2	8.0	-2.0	1.0	-1.4	1.4	-0.4
30.....	-1.6	.....	2.6	-0.4	3.0	0.2	7.4	-2.0	0.8	-1.4	1.8	-0.4
31.....	-1.6	.....	0.0	.....	2.8	.....	7.0	-2.0	.....	-1.4	.....	-0.4
Means.	-1.6	-1.6	-0.2	-0.2	2.0	0.9	4.0	-1.1	0.6	-0.4	2.1	0.6

## RIVERS OF TEXAS—BRAZOS RIVER, KOPFERL, TEX.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.	-0.4	-0.6	7.0	0.6	-0.8	0.6	0.8	1.4	-1.0	2.2	0.0	0.0
2.	-0.4	-0.6	6.5	0.6	-0.8	0.6	0.6	1.2	-0.6	1.6	-0.2	0.0
3.	-0.4	-0.6	5.5	0.6	-0.8	0.4	0.8	1.0	-0.8	1.4	-0.2	0.0
4.	-0.4	-0.6	4.0	0.6	-0.8	0.2	0.6	0.8	-1.0	1.2	-0.4	0.0
5.	-0.4	-0.6	3.4	0.6	-0.8	1.2	0.0	0.6	-1.0	1.0	-0.4	-0.2
6.	-0.4	-0.6	3.2	0.6	-0.8	1.0	0.2	0.4	-1.0	6.0	-0.2	-0.2
7.	-0.4	-0.6	2.5	0.6	-0.8	1.0	0.0	0.2	-1.0	7.2	-0.2	-0.2
8.	-0.4	-0.6	2.0	0.6	-0.8	1.4	0.0	0.0	-1.0	4.0	-0.4	-0.2
9.	-0.4	-0.6	2.0	0.6	-0.8	1.0	0.0	0.0	-1.0	3.2	-0.6	0.0
10.	-0.4	-0.4	5.0	0.6	-0.8	0.8	0.0	0.5	-1.0	2.0	-0.6	0.0
11.	-0.4	-1.0	3.4	0.6	-0.8	0.6	0.0	0.2	-1.0	1.8	-0.8	0.0
12.	-0.4	-1.0	3.0	0.6	-0.8	0.4	0.0	3.2	-1.0	1.6	-0.8	0.0
13.	-0.4	-1.0	5.0	0.6	-0.8	0.8	0.0	1.6	-1.0	1.4	-0.8	0.0
14.	-0.4	-0.8	4.2	0.6	-0.8	1.4	0.0	0.6	-1.0	1.2	-0.8	0.0
15.	-0.4	-0.8	3.4	0.6	-0.8	5.2	0.0	0.2	-1.0	1.2	-1.0	-0.2
16.	-0.4	1.2	3.2	0.6	-0.8	6.0	0.0	0.0	-1.0	1.0	1.0	-0.2
17.	-0.4	0.0	3.0	0.6	-0.8	4.2	0.0	-0.2	-1.0	1.0	1.0	-0.2
18.	-0.4	0.0	2.8	0.4	-0.8	3.5	0.0	-0.4	-0.2	0.8	0.8	-0.2
19.	-0.4	0.0	2.6	0.4	-0.8	1.5	0.0	-0.6	-0.6	0.6	0.8	-0.2
20.	-0.4	0.0	3.8	0.2	1.0	1.0	0.0	-0.8	-0.4	0.4	0.6	-0.2
21.	1.0	0.0	1.5	0.2	1.0	0.6	0.0	-1.0	-0.2	0.2	0.6	-0.2
22.	-0.4	0.0	1.4	0.0	0.8	1.6	0.0	-1.0	1.2	0.0	0.6	-0.4
23.	-0.4	0.0	1.2	0.0	0.6	0.8	0.0	-1.0	-0.6	0.0	0.4	-0.4
24.	-0.4	0.0	1.0	0.0	0.4	0.8	0.0	-1.0	-0.4	0.0	0.4	-0.4
25.	-0.4	0.0	1.0	-0.2	0.0	1.0	0.0	-1.0	-0.4	0.0	0.2	-0.4
26.	-0.6	8.0	2.5	-0.2	0.0	1.0	0.0	-1.0	-0.4	0.0	0.2	-0.4
27.	-0.6	6.5	1.0	-0.4	0.0	3.0	0.0	-1.0	-0.6	0.0	0.2	-0.4
28.	-0.6	7.5	1.0	-0.4	0.2	1.5	0.0	-1.0	-0.4	0.0	0.0	-0.4
29.	-0.6		0.8	-0.6	0.8	1.2	0.0	-1.0	-0.2	0.0	0.0	-0.4
30.	-0.6		0.6	-0.8	0.8	1.0	1.2	-1.0	3.4	0.0	0.0	-0.4
31.	-0.6		0.6		0.8		1.6	-1.0		0.0		-0.4
Means.	-0.4	0.5	2.8	0.3	-0.3	1.5	0.2	0.0	-0.5	1.3	0.0	-0.2
<b>1904</b>												
1.	-0.4	-1.0	-0.4	1.6	0.6	-0.4	6.2	1.8	-0.8	3.2	1.6	0.0
2.	-0.4	-1.0	-0.4	1.8	0.4	-0.6	5.8	1.6	-1.2	3.0	1.4	0.0
3.	-0.6	-1.0	-0.4	1.8	0.4	4.6	5.2	1.2	-1.6	3.0	1.4	-0.2
4.	-0.6	-1.0	-0.4	1.8	2.3	5.0	3.0	1.0	2.0	2.8	1.2	-0.2
5.	0.6	-1.0	-0.4	1.8	2.8	4.8	2.4	0.8	1.8	2.4	1.0	-0.2
6.	-0.6	0.0	-0.6	2.8	7.0	4.4	2.2	1.8	1.8	2.2	1.0	-0.2
7.	-0.6	0.0	-0.6	2.4	5.8	4.0	2.0	6.4	1.6	2.0	1.0	-0.4
8.	-0.6	0.2	-0.6	2.2	3.4	4.0	3.2	8.2	1.4	1.6	0.8	-0.4
9.	-0.8	0.2	-0.6	2.2	2.4	3.8	3.0	6.8	2.2	1.4	0.8	-0.4
10.	-0.8	0.0	0.6	2.0	2.4	3.6	2.6	5.4	2.6	1.8	0.8	-0.4
11.	-0.8	0.0	-0.6	1.6	2.0	5.8	2.0	3.2	2.8	1.6	0.6	-0.4
12.	-0.8	0.0	-0.6	1.6	1.8	5.0	2.0	3.0	2.2	1.2	0.6	-0.4
13.	-0.8	0.0	-0.6	1.4	1.6	2.4	1.6	2.4	1.8	1.0	0.6	-0.6
14.	-0.8	0.0	-0.6	1.2	1.2	2.0	1.0	2.0	2.8	1.0	0.6	-0.6
15.	-0.8	0.0	-0.6	1.0	1.0	2.0	0.8	1.6	3.2	0.8	0.4	-0.6
16.	-0.8	0.0	-0.8	1.0	1.0	5.4	0.4	1.4	2.6	0.6	0.4	-0.6
17.	-0.8	0.0	-0.8	0.8	0.8	5.0	0.4	1.2	2.2	0.6	0.4	-0.6
18.	-0.8	0.0	-0.8	0.8	2.0	4.0	0.2	1.2	2.0	0.4	0.4	-0.6
19.	-0.8	0.0	-1.0	0.8	2.6	2.4	0.2	1.0	1.6	5.8	0.4	-0.6
20.	-0.8	0.0	-1.0	0.8	0.6	1.0	0.2	0.8	1.2	4.0	0.2	-0.6
21.	-0.8	0.0	-1.3	0.8	0.6	0.8	0.0	0.8	0.6	3.4	0.2	-0.6
22.	-1.0	0.0	-1.4	1.8	0.4	0.8	0.0	0.8	1.2	3.0	0.2	-0.6
23.	-1.0	0.2	-1.4	2.6	0.4	0.6	0.0	0.6	0.8	2.8	0.2	-0.8
24.	-1.0	0.2	-1.4	2.8	0.2	0.6	0.0	0.4	0.6	2.0	0.2	-0.8
25.	-1.0	0.2	1.5	2.0	0.2	1.4	-0.2	0.2	0.4	6.8	0.2	-0.8
26.	-1.0	0.2	1.6	1.4	0.2	1.0	-0.2	0.2	0.2	9.0	0.0	-0.8
27.	-1.0	0.2	2.6	1.0	0.2	1.0	2.4	0.0	0.0	7.0	0.0	-0.8
28.	-1.0	0.2	2.6	1.0	0.0	1.0	3.0	0.0	0.0	4.8	0.0	-0.8
29.	-1.0	0.2	2.6	1.0	-0.2	12.0	2.2	-0.2	0.2	2.6	0.0	-0.8
30.	-1.0		1.6	0.8	-0.4	9.0	2.0	-0.4	2.8	2.0	0.0	-0.8
31.	-1.0		1.6		-0.4		2.0	-0.4		1.8		-0.8
Means.	-0.8	-0.1	-0.2	1.6	1.4	3.3	1.8	1.8	1.3	2.8	0.6	-0.5

## DESCRIPTION OF RIVER GAGES, ETC.

717

RIVERS OF TEXAS—BRAZOS RIVER, WACO, TEX.<sup>a</sup>

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1900</b>												
1								3.1	0.6	12.0	4.8	1.2
2								3.8	0.7	9.6	4.8	1.6
3								3.0	0.7	7.8	4.2	1.6
4								3.3	0.5	6.1	3.1	1.5
5								3.8	0.4	5.8	3.5	1.5
6								3.0	0.3	5.2	3.6	1.5
7								2.5	1.4	5.2	2.6	1.5
8								2.4	1.5	5.0	2.5	1.5
9								2.8	1.5	3.9	2.1	1.5
10								2.6	5.1	3.8	1.9	1.4
11								2.6	6.1	3.6	1.6	1.4
12								2.3	6.2	3.1	1.5	1.4
13								2.0	6.2	3.0	1.5	1.4
14								2.0	5.2	2.9	1.5	1.4
15								3.1	5.0	2.7	1.3	1.4
16								3.0	5.0	2.6	1.2	1.4
17								2.8	4.5	2.1	1.2	1.8
18								2.8	4.2	1.9	1.2	1.8
19								2.2	4.0	1.8	1.0	1.8
20								2.1	4.0	1.8	1.0	1.8
21								2.0	4.0	2.1	1.0	1.8
22								1.9	8.2	4.0	1.0	1.8
23								1.8	9.4	4.2	1.0	1.8
24								0.9	16.2	4.6	1.0	1.8
25								0.8	18.9	4.6	1.0	1.8
26								0.6	19.8	4.2	1.2	1.8
27								0.5	21.6	3.4	1.2	1.8
28								0.5	22.8	3.0	1.1	1.8
29								0.5	22.7	3.0	1.1	1.8
30								0.6	14.6	2.8	1.1	1.8
31								0.8		4.4		1.8
Means.								2.1	7.4	4.2	1.9	1.6
<b>1901</b>												
1	1.1	0.8	1.0	1.9	1.8	3.4	1.5	0.4	1.1	1.8	0.8	1.1
2	1.1	0.8	1.0	1.9	1.8	3.4	1.3	0.5	1.1	1.6	0.8	1.1
3	1.1	0.8	1.0	1.9	1.6	10.2	1.0	0.5	1.1	1.6	0.8	1.0
4	1.1	0.8	1.0	1.9	1.6	7.8	1.0	2.1	1.0	1.6	1.8	1.0
5	1.1	0.8	1.0	2.6	1.6	7.3	1.0	2.0	1.0	1.0	1.8	1.0
6	1.1	0.8	1.0	2.6	1.0	7.0	1.0	2.0	0.9	1.0	1.0	1.0
7	1.1	0.8	1.0	2.0	1.0	6.1	0.9	2.0	0.9	1.0	1.0	1.0
8	1.0	1.1	1.0	2.0	1.0	6.0	0.9	2.0	0.9	1.0	1.0	1.0
9	1.0	1.1	1.0	2.0	1.0	5.4	0.8	2.0	0.8	1.0	1.0	1.0
10	1.0	1.1	1.0	2.0	1.0	5.0	0.5	2.0	0.8	1.0	0.9	1.0
11	1.0	1.1	1.0	2.0	1.0	4.4	0.5	2.0	0.8	1.0	0.9	1.0
12	1.0	1.1	1.0	2.0	1.0	4.0	0.5	2.0	0.8	1.0	0.9	1.0
13	1.0	1.4	1.0	2.0	1.0	3.1	0.5	1.6	1.8	1.0	0.9	1.0
14	1.0	1.4	1.0	2.0	1.0	2.8	0.5	1.6	2.7	1.0	0.9	1.0
15	1.0	1.4	1.0	2.0	1.0	2.1	0.5	1.6	3.9	1.0	0.9	1.0
16	1.0	1.4	1.0	2.0	1.0	2.0	0.5	1.6	2.6	1.0	1.6	1.0
17	1.0	1.4	1.0	2.0	1.0	2.0	0.5	1.6	2.4	1.0	1.6	1.0
18	1.0	1.4	1.0	2.0	9.6	2.0	0.5	1.6	2.0	1.0	1.0	1.0
19	1.0	1.4	1.0	2.0	7.4	2.0	0.5	1.0	2.0	1.0	1.0	1.0
20	1.0	1.4	1.0	2.0	8.2	2.0	0.5	1.0	2.0	1.0	1.0	1.0
21	1.0	1.4	1.0	2.0	6.1	2.0	0.5	1.0	2.0	1.0	1.0	1.0
22	0.9	1.4	1.0	2.0	5.0	1.8	0.5	1.0	2.0	1.0	1.0	1.0
23	0.9	1.4	1.0	2.0	5.1	1.8	0.5	1.0	1.9	1.0	1.0	1.0
24	0.9	1.4	1.0	2.0	5.1	1.8	0.5	1.0	1.9	1.0	1.0	1.0
25	0.9	1.4	1.0	2.0	5.0	1.8	0.5	1.0	1.9	1.0	1.0	1.0
26	0.9	1.4	1.0	2.0	5.0	1.8	0.5	1.0	1.8	1.0	1.0	1.0
27	0.9	1.4	1.0	2.0	3.1	1.8	0.5	1.0	1.8	0.8	0.9	1.0
28	0.9	1.4	1.0	2.0	2.9	1.8	0.5	1.0	1.8	0.8	0.9	1.0
29	0.9		1.0	2.0	2.9	1.8	0.5	1.0	1.8	0.8	0.9	1.0
30	0.9		2.4	2.0	2.9	1.8	0.5	1.0	1.8	0.8	0.9	1.0
31	0.9		2.4		3.2		0.5	1.0		0.8		1.0
Means.	1.0	1.2	1.1	2.0	3.0	3.5	0.7	1.4	1.6	1.1	1.0	1.0

<sup>a</sup> To reduce to zero of gage in use on and after March 16, 1902, add 2.4 feet.

RIVERS OF TEXAS--BRAZOS RIVER, WACO, TEX.<sup>a</sup>—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1902</b>												
1.....	0.9	0.8	3.3	1.6	2.8	6.0	4.4	12.1	3.2	4.8	2.6	6.0
2.....	0.9	0.8	3.3	1.6	2.7	5.5	4.3	9.5	3.2	5.0	2.4	8.2
3.....	0.9	0.8	3.3	1.3	2.6	8.6	3.7	8.4	3.1	6.1	3.5	6.5
4.....	0.9	0.8	3.3	0.9	2.6	7.0	3.5	7.4	4.0	6.0	3.7	6.2
5.....	0.9	0.9	3.3	0.7	2.8	8.6	5.2	6.7	4.2	7.2	3.2	6.2
6.....	0.8	0.9	3.3	0.7	2.8	7.6	5.0	6.5	4.3	5.9	9.0	5.6
7.....	0.8	0.9	3.3	0.3	3.2	6.6	4.7	6.3	4.5	5.4	7.0	5.1
8.....	0.8	0.9	3.3	0.3	3.0	5.8	3.8	5.8	5.4	4.8	7.1	4.8
9.....	0.8	0.9	3.3	0.6	2.7	5.4	3.7	5.5	4.6	4.8	5.9	4.8
10.....	0.8	0.9	3.3	0.4	7.4	5.0	3.4	5.1	5.8	4.6	5.8	4.7
11.....	0.8	0.9	3.3	1.4	7.4	4.6	3.6	4.9	7.2	4.3	5.3	4.5
12.....	0.8	0.9	3.3	0.9	6.1	4.5	4.0	4.7	6.2	4.1	5.3	4.4
13.....	0.8	0.9	4.5	1.2	5.6	4.4	4.4	4.1	5.6	3.8	5.3	4.4
14.....	0.8	0.9	4.2	1.2	5.2	4.2	4.9	4.3	5.1	3.7	7.8	4.4
15.....	0.8	0.9	3.8	1.0	5.3	3.9	5.6	3.7	4.9	3.4	5.8	4.3
16.....	0.8	0.9	5.4	0.7	6.1	3.7	5.2	3.9	4.8	3.3	5.5	3.8
17.....	0.8	0.9	5.0	2.8	5.1	3.7	6.0	4.3	4.6	3.3	10.3	3.6
18.....	0.8	0.9	4.8	1.0	4.6	4.2	4.7	4.3	4.4	3.1	4.8	3.7
19.....	0.8	0.9	4.4	1.1	8.1	3.8	4.6	4.4	4.0	3.1	6.4	3.7
20.....	0.8	0.9	5.2	0.9	12.1	3.5	4.6	4.4	3.9	3.0	5.4	3.7
21.....	0.6	0.9	5.1	0.9	8.1	3.4	4.8	4.5	3.8	3.1	9.5	3.6
22.....	0.6	0.9	4.5	1.0	7.1	3.3	6.9	3.8	3.7	3.9	7.0	3.5
23.....	0.6	0.9	4.5	1.0	7.6	3.3	11.8	3.7	3.7	3.4	7.1	3.5
24.....	0.6	0.9	4.0	0.7	10.7	3.4	10.3	3.7	3.5	3.6	5.9	3.5
25.....	0.6	0.9	3.9	0.5	10.4	3.2	11.5	3.6	3.4	3.6	16.3	3.5
26.....	0.6	0.9	3.6	0.4	10.4	3.1	29.1	3.6	3.4	3.6	9.1	3.5
27.....	0.6	0.9	3.5	0.4	8.4	4.6	33.3	3.4	3.3	3.2	6.9	3.5
28.....	0.6	0.9	3.8	0.3	8.0	5.1	27.8	3.3	6.1	3.2	6.2	3.5
29.....	0.6		3.6	0.4	8.2	4.7	20.4	3.2	5.8	3.0	6.2	3.4
30.....	0.6		4.9	0.2	7.7	5.0	17.4	3.2	5.1	3.0	6.0	3.4
31.....	0.6		4.6		7.0		14.2	3.2		3.0		3.4
Means.	0.7	0.9	4.0	0.9	6.2	4.9	8.9	5.0	4.5	4.1	6.4	4.4
<b>1903</b>												
1.....	3.4	3.7	13.5	5.4	3.2	3.3	5.0	6.1	2.6	16.8	3.1	2.6
2.....	3.8	3.7	11.0	5.4	3.2	3.2	5.3	5.1	2.5	9.5	3.6	2.6
3.....	3.8	3.7	9.6	5.3	3.2	3.2	6.9	4.8	2.5	7.1	3.5	2.6
4.....	3.6	3.7	9.6	5.2	3.2	3.1	6.0	3.8	3.8	6.5	3.3	2.6
5.....	3.6	3.6	9.2	4.6	3.1	3.0	9.9	3.7	3.0	6.0	3.3	2.6
6.....	3.6	3.6	8.4	4.4	3.1	3.0	5.8	3.5	2.6	10.4	3.2	2.6
7.....	3.5	3.6	7.8	4.3	3.2	4.0	4.6	3.2	2.5	9.2	3.6	2.5
8.....	3.4	3.6	6.8	4.5	3.2	4.3	4.4	3.2	2.5	10.6	3.9	2.5
9.....	3.4	3.6	6.1	4.3	3.2	5.4	4.3	3.0	2.4	8.1	3.7	2.5
10.....	3.4	3.6	14.2	4.2	3.2	3.9	3.8	3.0	2.4	7.0	3.5	2.5
11.....	3.4	3.4	7.5	4.1	3.4	3.7	3.7	3.0	2.4	9.0	3.4	2.4
12.....	3.4	4.4	7.5	4.1	3.7	3.5	3.5	3.4	2.4	7.2	3.2	2.4
13.....	3.4	4.1	9.5	4.1	3.4	4.1	3.1	5.9	2.4	6.1	3.2	2.4
14.....	3.4	4.0	8.4	4.1	3.3	4.1	3.3	4.2	2.3	5.8	3.0	2.4
15.....	3.4	4.0	7.0	4.0	3.2	4.6	3.3	4.1	2.3	5.0	3.0	2.4
16.....	3.4	4.6	6.9	3.9	3.1	7.0	3.2	3.9	2.3	4.8	3.4	2.3
17.....	3.4	13.4	6.8	3.9	3.1	6.0	3.2	4.2	2.3	4.5	3.6	2.3
18.....	3.4	6.3	6.0	3.8	3.1	5.5	3.1	3.5	2.2	4.5	3.4	2.3
19.....	3.4	6.2	5.0	3.8	3.0	5.4	3.1	3.4	2.2	4.1	3.2	2.3
20.....	3.3	6.3	14.5	3.7	3.0	4.7	3.1	3.3	3.1	3.8	3.0	2.3
21.....	3.3	6.3	8.1	3.6	3.0	4.6	3.0	3.3	3.3	3.7	3.0	2.3
22.....	6.2	7.0	6.8	3.5	2.9	4.7	3.0	3.2	3.0	3.6	2.9	2.3
23.....	6.0	6.9	6.7	3.5	3.0	4.6	2.8	3.0	3.0	3.5	2.9	2.3
24.....	4.6	6.8	6.0	3.5	3.0	4.8	2.7	2.8	4.5	3.4	2.9	2.3
25.....	4.2	6.4	5.9	3.4	3.1	5.1	2.7	2.7	4.6	3.4	2.9	2.3
26.....	4.0	13.2	5.8	3.4	3.8	6.6	2.6	2.6	4.0	3.4	2.8	2.4
27.....	4.2	22.0	6.0	3.4	3.2	5.1	2.6	2.5	4.0	3.0	2.7	2.3
28.....	4.2	12.1	6.4	3.3	3.1	5.9	2.6	2.5	3.8	2.8	2.6	2.3
29.....	4.0		6.2	3.3	5.4	5.1	2.6	2.5	3.4	2.8	2.6	2.3
30.....	3.9		6.0	3.3	5.0	5.0	4.1	2.5	3.2	2.6	2.5	2.3
31.....	3.9		5.5		3.1		4.9	2.5		2.5		2.3
Means.	3.8	6.2	7.9	4.0	3.3	4.6	4.0	3.5	2.9	5.8	3.2	2.4

<sup>a</sup> To reduce to zero of gage in use on and after March 16, 1902, add 2.4 feet.

## RIVERS OF TEXAS—BRAZOS RIVER, WACO, TEX.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	2.3	2.2	2.3	3.5	2.9	3.5	9.8	4.1	2.9	4.9	4.5	2.8
2.....	2.3	2.2	2.3	3.3	2.9	3.5	7.7	3.9	2.9	4.5	4.1	2.8
3.....	2.3	2.2	2.2	3.3	4.1	3.4	7.6	3.6	2.8	4.3	4.0	2.8
4.....	2.3	2.2	2.2	3.1	7.2	3.4	7.1	3.6	2.8	4.0	3.8	2.8
5.....	2.3	2.5	2.2	3.1	6.4	11.0	6.8	3.5	6.3	3.8	3.8	2.8
6.....	2.3	2.7	2.2	3.0	11.1	8.1	6.5	4.3	4.7	3.4	3.6	2.8
7.....	2.3	4.1	2.2	3.2	11.2	8.2	6.0	4.0	4.0	3.4	3.5	2.8
8.....	2.3	3.8	2.1	4.2	7.8	6.5	5.2	10.0	4.5	3.3	3.4	2.8
9.....	2.3	3.6	2.1	3.6	5.6	5.8	4.8	7.1	6.4	3.2	3.4	2.8
10.....	2.3	3.5	2.1	3.5	5.1	7.9	4.3	7.1	5.5	3.1	3.4	2.8
11.....	2.3	3.3	2.1	3.6	4.7	8.4	4.2	6.3	5.0	3.1	3.2	2.8
12.....	2.3	3.0	2.1	3.2	4.2	7.5	4.0	6.9	4.3	3.0	3.1	2.8
13.....	2.3	2.7	2.1	3.1	4.1	6.9	3.8	6.1	5.3	3.0	3.1	2.7
14.....	2.2	2.7	2.0	3.0	3.8	6.2	3.7	5.8	5.2	2.9	3.0	2.7
15.....	2.2	2.6	2.1	3.0	3.8	5.4	3.6	5.3	6.1	2.8	3.0	2.7
16.....	2.2	2.6	2.1	3.0	4.0	4.9	3.3	5.1	5.3	2.8	3.0	2.7
17.....	2.2	2.5	2.1	3.0	3.6	5.7	3.2	4.8	4.9	2.7	3.0	2.7
18.....	2.2	2.5	2.1	3.0	3.5	5.0	3.1	4.2	5.0	2.7	3.0	2.7
19.....	2.2	2.4	2.1	2.9	3.5	4.5	3.2	4.0	3.9	3.7	2.9	2.6
20.....	2.2	2.4	2.1	2.9	4.8	4.1	3.0	3.9	3.6	5.6	2.9	2.6
21.....	2.2	2.6	2.1	2.9	4.4	3.9	3.0	3.8	3.5	5.4	2.9	2.6
22.....	2.2	2.6	2.1	2.8	4.2	3.8	2.9	3.6	3.5	4.6	2.9	2.6
23.....	2.2	2.5	2.2	2.8	4.0	4.2	3.0	3.6	3.7	4.5	2.9	2.6
24.....	2.2	2.5	2.2	3.6	3.6	3.8	2.8	3.4	3.6	4.3	2.8	2.6
25.....	2.2	2.5	2.2	3.6	3.6	3.7	2.8	3.3	3.4	5.6	2.8	2.6
26.....	2.2	2.4	2.2	3.2	3.4	3.6	2.9	3.1	3.2	7.4	2.8	2.6
27.....	2.2	2.4	4.3	3.0	3.3	3.7	2.8	3.1	3.0	9.6	2.8	2.6
28.....	2.2	2.3	4.1	2.8	3.2	3.7	2.7	3.1	2.9	8.9	2.8	2.6
29.....	2.2	2.3	5.1	2.9	6.0	3.6	2.6	3.1	2.9	7.2	2.8	2.6
30.....	2.2		4.6	2.8	4.0	12.0	2.6	3.0	3.1	5.6	2.8	2.5
31.....	2.2		4.1		3.6		4.5	3.0		4.5		2.5
Means	2.2	2.7	2.5	3.2	4.8	5.5	4.3	4.5	4.1	4.4	3.2	2.7

## RIVERS OF TEXAS—BRAZOS RIVER, HEMPSTEAD, TEX.

1903												
1.....							5.0	17.6	0.6	0.4	0.9	-0.5
2.....							5.0	28.8	0.6	0.3	0.7	-0.5
3.....							5.0	31.5	1.0	18.5	0.6	-0.6
4.....							6.5	27.6	0.6	19.0	0.5	-0.7
5.....							7.8	20.0	0.5	10.0	0.4	-0.7
6.....							11.0	18.8	0.4	8.6	0.3	-0.7
7.....							16.0	18.2	0.3	10.0	0.8	-0.8
8.....							15.0	16.8	0.3	14.0	1.0	-0.8
9.....							10.0	15.4	0.3	14.5	0.8	-0.8
10.....							8.2	13.6	0.2	16.5	0.8	-0.8
11.....							7.4	12.4	0.2	13.0	0.7	-0.8
12.....							6.0	11.1	0.1	12.0	0.6	-0.8
13.....							5.9	9.8	0.0	11.5	0.9	3.0
14.....							5.5	8.5	-0.1	11.0	0.9	2.5
15.....							5.1	8.0	-0.2	8.0	0.8	2.5
16.....							4.8	8.4	-0.3	7.7	0.8	2.7
17.....							4.6	7.8	-0.4	6.7	0.7	2.8
18.....							4.4	6.8	-0.4	6.7	0.5	2.8
19.....							4.2	6.0	-0.5	6.5	0.4	2.8
20.....							4.0	5.0	-0.5	6.0	0.3	1.2
21.....							3.8	4.1	-0.6	5.3	0.1	0.6
22.....							3.6	3.0	-0.6	3.7	0.0	0.2
23.....							3.4	2.1	-0.7	3.2	-0.1	-0.2
24.....							3.2	1.9	-0.7	3.0	-0.2	-0.3
25.....							2.8	1.5	-0.7	2.7	-0.2	-0.3
26.....							2.6	1.3	-0.7	2.4	-0.3	1.0
27.....							2.4	1.1	0.0	2.1	-0.4	0.8
28.....							2.0	1.0	0.5	1.8	-0.4	0.5
29.....							4.0	0.9	1.0	1.6	-0.4	0.2
30.....							10.0	0.8	0.7	1.3	-0.5	-0.1
31.....							14.0	0.7		1.0		-0.2
Means							6.2	10.0	0.0	7.4	0.4	0.5

## DESCRIPTION OF RIVER GAGES, ETC.

## RIVERS OF TEXAS—BRAZOS RIVER, HEMPSTEAD, TEX.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	-0.4	-1.3	0.3	3.0	1.8	5.7	1.6	0.3	-1.2	-0.3	6.0	-2.1
2.....	-0.6	-1.3	-0.1	4.0	2.4	6.0	14.0	0.2	-1.2	-1.0	5.0	-2.1
3.....	-0.7	-1.3	-0.4	4.6	2.1	4.5	17.0	0.1	-1.3	-1.2	4.2	-2.1
4.....	-0.8	-1.3	-0.6	4.8	19.6	3.7	11.0	1.2	-1.3	-1.3	3.4	-2.1
5.....	-0.8	-1.3	-0.7	4.0	21.0	2.0	10.0	1.1	-1.4	0.8	2.6	-1.5
6.....	-0.9	-1.3	-0.8	3.5	28.0	1.6	9.0	0.8	-1.5	0.7	1.9	-1.5
7.....	-0.9	-1.3	-1.0	3.0	31.7	8.8	7.8	0.8	-1.6	0.4	1.2	-1.6
8.....	-0.8	-1.3	-1.2	2.8	34.5	11.5	6.9	1.0	-1.7	0.0	0.6	-1.7
9.....	-0.7	-1.3	-1.3	2.8	35.3	13.8	5.5	2.5	3.7	-0.3	0.3	-1.8
10.....	-0.8	-1.3	-1.4	2.8	32.0	12.8	4.5	7.5	2.1	-0.5	0.2	-1.8
11.....	-0.8	-1.3	-1.5	2.5	26.0	9.6	3.8	11.5	1.8	-0.7	0.0	-1.9
12.....	-0.9	-1.3	-1.5	2.2	20.0	11.0	3.0	8.0	3.0	-1.0	-0.3	-1.9
13.....	-0.9	0.9	-1.5	1.8	17.0	10.2	2.5	7.0	3.7	-1.2	-0.5	-2.0
14.....	-0.9	1.0	-1.6	1.1	15.0	8.0	2.0	6.5	3.6	-1.4	-0.7	-2.0
15.....	-0.9	0.8	-1.6	1.1	13.5	8.0	1.5	6.0	2.4	-1.6	-0.9	-2.1
16.....	-0.9	0.6	-1.6	1.0	12.7	7.0	1.0	5.0	1.5	-1.7	-1.1	-2.1
17.....	-1.0	0.5	-1.6	0.9	11.0	5.8	0.6	4.0	2.5	-1.8	-1.3	-2.2
18.....	-1.0	0.4	-1.6	0.8	10.2	4.6	0.3	3.4	2.4	-1.9	-1.4	-2.2
19.....	-1.1	1.8	-1.7	0.7	9.0	3.8	0.2	2.6	2.3	-2.0	-1.5	-2.3
20.....	-1.1	2.5	-1.7	0.6	8.5	4.0	0.1	2.0	2.1	-2.1	-1.5	-2.3
21.....	-1.1	3.0	-1.7	0.4	7.6	3.8	0.0	1.4	1.7	-2.1	-1.5	-2.4
22.....	-1.2	2.4	-1.7	0.3	6.7	3.2	-0.1	1.0	1.3	-2.1	-1.6	-2.4
23.....	-1.2	2.1	-1.7	0.5	5.8	2.7	-0.1	0.7	1.0	1.0	-1.7	-2.5
24.....	-1.2	2.0	-1.7	0.0	4.8	3.5	0.3	0.4	0.6	1.6	-1.8	-2.5
25.....	-1.2	1.4	-1.7	0.0	4.0	2.4	0.2	0.1	0.3	1.9	-1.9	-2.5
26.....	-1.3	0.8	-1.7	0.0	3.5	2.3	2.0	-0.1	0.6	1.4	-1.9	1.6
27.....	-1.3	0.5	-1.7	0.7	3.1	2.2	3.5	-0.3	0.6	2.1	-2.0	4.1
28.....	-1.3	0.4	-1.7	1.5	2.8	2.0	1.5	-0.5	0.6	11.0	-2.0	5.7
29.....	-1.3	0.3	-1.0	1.2	2.7	1.8	1.0	-0.7	0.4	13.0	-2.1	6.8
30.....	-1.3		1.5	1.6	2.7	1.6	0.6	-0.9	0.2	10.0	-2.1	5.6
31.....	-1.3		1.7		3.8		0.4	-1.0		7.0		4.4
Means.	-0.9	0.2	-1.1	1.8	12.9	5.6	3.6	2.3	0.9	0.9	-0.1	-0.8

## RIVERS OF TEXAS—BRAZOS RIVER, BOOTH, TEX.

1901												
1.....					2.1	6.0	1.5	0.2	0.3	0.8	0.0	0.0
2.....					2.0	5.9	1.4	0.1	0.5	0.7	0.0	0.0
3.....					1.9	5.3	1.3	0.0	0.3	0.7	0.0	0.0
4.....					1.7	5.5	1.3	0.0	0.0	0.7	0.0	0.1
5.....					1.5	6.0	1.2	0.0	0.1	0.6	0.0	0.1
6.....					1.0	6.3	1.2	0.0	0.1	0.5	0.1	0.1
7.....					0.5	12.8	1.0	0.0	0.2	0.6	0.1	0.1
8.....					0.5	11.0	1.0	0.0	0.2	0.6	0.1	0.0
9.....					0.5	11.0	0.9	0.0	0.5	0.6	0.0	0.0
10.....					0.3	11.5	0.9	0.0	0.4	0.6	0.0	0.0
11.....					0.3	9.7	0.8	0.5	0.3	0.6	0.0	0.0
12.....					0.3	8.0	0.7	1.0	0.2	0.6	0.0	0.1
13.....					0.6	6.5	0.6	1.1	0.0	0.6	0.0	0.1
14.....					1.0	5.5	0.5	1.1	0.0	0.6	-0.1	0.1
15.....					0.5	5.2	0.3	1.0	0.0	0.7	-0.1	0.0
16.....					0.5	4.5	0.3	0.8	0.0	0.8	-0.1	0.0
17.....					-0.4	4.4	0.3	0.6	0.0	0.9	-0.1	0.1
18.....					-0.3	3.3	0.3	0.5	0.0	1.0	0.0	0.2
19.....					0.2	2.3	0.3	0.4	0.0	1.0	0.1	0.1
20.....					0.0	0.3	0.3	0.3	1.1	1.0	0.1	0.0
21.....					0.2	1.0	0.3	0.5	2.0	1.0	0.1	0.0
22.....					9.5	1.0	0.3	0.8	3.0	0.9	0.0	-0.1
23.....					12.5	0.5	0.3	0.7	3.0	0.9	0.0	-0.1
24.....					11.8	2.5	0.4	0.5	2.8	0.8	0.0	-0.1
25.....					10.0	2.2	0.4	0.4	2.0	0.7	0.0	-0.2
26.....					9.0	1.8	0.3	0.2	1.8	0.7	0.0	-0.1
27.....					13.0	1.4	0.2	0.2	1.0	0.6	-0.1	0.0
28.....					12.2	1.0	0.2	0.1	0.8	0.5	-0.1	0.0
29.....					11.0	0.7	0.3	0.1	1.2	0.5	-0.1	0.0
30.....					9.0	0.6	0.4	0.0	1.5	0.5	-0.1	-0.1
31.....					8.4		0.2	0.3		0.5		-0.1
Means.					3.9	4.8	0.7	0.4	0.8	0.7	0.0	0.0



## RIVERS OF TEXAS—BRAZOS RIVER, BOOTH, TEX.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1902												
1.....	-0.4	-0.4	-0.6	1.1	1.9	8.8	1.7	31.8	3.4	4.4	1.0	18.0
2.....	-0.4	-0.4	-0.6	1.0	2.8	7.7	1.5	32.8	3.4	6.4	1.0	15.9
3.....	-0.4	-0.4	-0.6	0.9	2.6	7.2	1.4	33.7	3.4	10.0	1.3	15.8
4.....	-0.5	-0.4	-0.6	0.7	2.4	6.8	2.0	34.5	3.2	21.5	3.4	15.7
5.....	-0.5	-0.4	-0.6	0.6	2.0	6.4	1.9	35.5	3.2	30.5	10.5	18.0
6.....	-0.5	-0.4	-0.6	0.7	1.9	6.0	2.3	36.8	3.1	27.7	13.0	15.4
7.....	-0.5	-0.4	-0.6	1.1	1.5	6.6	2.0	37.7	3.2	21.8	12.8	15.2
8.....	-0.5	-0.5	-0.6	1.1	1.0	6.8	1.8	38.0	3.2	19.3	11.8	14.0
9.....	-0.6	-0.5	-0.6	0.6	1.0	7.3	1.3	37.2	3.1	15.8	11.6	13.0
10.....	-0.6	-0.5	-0.6	0.2	1.4	6.8	1.0	29.0	4.2	12.4	11.6	11.2
11.....	-0.6	-0.5	-0.6	0.0	1.3	5.8	1.0	21.0	4.4	11.3	11.4	10.7
12.....	-0.6	-0.5	-0.6	-0.2	1.1	5.2	2.0	18.0	4.4	11.0	9.9	10.1
13.....	-0.6	-0.5	-0.6	1.4	2.3	4.7	2.2	14.7	4.8	9.5	9.5	9.0
14.....	-0.6	-0.5	-0.6	2.7	2.7	3.8	2.5	12.8	4.5	9.3	9.0	9.0
15.....	-0.6	-0.5	-0.6	6.6	3.0	3.4	1.9	10.9	4.8	8.4	8.3	9.0
16.....	-0.6	-0.5	-0.6	6.1	4.4	3.0	1.6	9.7	6.5	8.2	8.0	6.8
17.....	-0.6	-0.5	-0.6	6.0	4.3	2.9	1.3	8.6	5.9	6.4	15.0	6.6
18.....	-0.6	-0.5	1.0	8.6	4.7	2.7	0.9	7.8	5.6	5.0	19.0	6.5
19.....	-0.7	-0.6	1.7	8.5	5.5	2.2	0.8	7.0	4.8	4.3	21.0	6.4
20.....	-0.7	-0.6	2.0	6.0	5.7	2.0	0.7	6.6	4.7	3.8	22.8	6.4
21.....	-0.7	-0.6	2.5	6.9	5.0	1.9	1.0	6.0	4.2	3.5	21.0	6.3
22.....	-0.7	-0.6	3.0	5.9	4.5	1.8	2.0	5.8	3.9	2.7	18.0	6.2
23.....	-0.7	-0.6	2.8	5.0	5.6	1.6	2.6	5.4	3.9	2.4	18.0	5.0
24.....	-0.7	-0.6	2.7	4.0	10.8	1.5	2.6	5.2	3.8	1.5	23.8	4.6
25.....	-0.6	-0.6	2.4	4.4	9.0	1.4	2.3	4.8	3.6	1.4	28.8	4.4
26.....	-0.6	-0.6	2.0	4.0	7.1	1.4	8.4	4.6	3.4	1.2	29.0	4.2
27.....	-0.6	-0.6	1.9	3.3	10.6	3.0	11.7	4.3	3.7	1.0	28.3	4.0
28.....	-0.6	-0.6	1.8	2.9	11.6	5.4	18.4	4.0	4.4	1.0	28.2	3.4
29.....	-0.5		1.8	2.5	11.7	3.7	24.4	3.8	4.7	1.0	25.7	2.5
30.....	-0.4		1.6	2.4	11.0	2.7	27.9	3.7	5.3	1.0	22.3	2.5
31.....	-0.3		1.4		9.6		30.0	3.5		1.0		2.5
Means.	-0.6	-0.5	0.6	3.2	4.8	4.4	5.3	16.6	4.2	8.5	15.2	9.0
1903												
1.....	1.0	4.5	31.0	12.6	6.9	4.7	5.7	15.6	2.7	0.8	4.0	2.6
2.....	14.7	5.0	32.0	12.1	5.8	5.0	5.4	22.5	2.7	1.5	4.0	2.6
3.....	17.0	6.5	33.7	11.6	4.5	5.6	5.3	23.2	2.6	2.7	4.0	2.6
4.....	14.4	6.0	35.4	10.8	4.4	5.9	6.9	25.3	2.5	3.5	4.0	2.5
5.....	12.4	5.7	36.7	10.0	4.2	6.3	6.2	24.9	2.4	4.7	4.0	2.5
6.....	11.4	5.5	38.0	11.8	4.4	5.5	7.3	19.5	2.4	5.5	4.0	2.4
7.....	9.6	5.3	38.7	12.7	6.5	5.3	9.3	18.8	2.3	6.3	4.0	2.4
8.....	8.9	5.0	38.4	13.8	5.9	4.7	10.3	17.9	2.2	7.6	4.0	2.3
9.....	7.6	4.8	37.0	14.7	4.8	4.7	10.7	16.7	2.2	9.8	4.0	2.3
10.....	7.5	6.0	33.7	15.5	4.4	4.8	9.7	15.5	2.0	10.5	4.0	2.2
11.....	6.0	8.0	28.0	15.0	4.6	4.9	8.5	14.7	1.9	11.3	4.0	2.2
12.....	5.9	11.0	21.7	14.9	4.3	5.0	7.6	13.4	1.9	13.7	4.0	1.8
13.....	4.8	12.4	21.0	13.6	4.4	5.1	6.7	12.6	1.8	14.4	4.0	1.8
14.....	4.8	12.5	20.7	12.8	4.1	5.2	6.5	11.3	1.7	13.6	4.0	1.8
15.....	4.6	12.5	19.0	11.6	4.0	5.3	6.2	10.7	1.6	12.6	4.0	1.7
16.....	4.3	15.0	17.7	10.9	6.3	5.5	5.8	8.5	1.5	11.9	4.0	1.7
17.....	6.0	18.0	16.6	10.9	6.0	5.5	5.4	7.5	1.5	10.4	3.0	1.6
18.....	6.6	21.8	16.0	10.9	5.2	5.6	4.8	6.9	1.4	8.8	3.0	1.5
19.....	6.3	24.0	16.8	10.4	4.6	5.9	4.7	6.5	1.4	7.6	3.0	1.7
20.....	6.3	25.0	17.4	10.3	4.5	6.5	4.5	5.5	1.3	7.3	3.0	2.9
21.....	6.0	25.4	18.7	10.0	4.5	6.3	4.3	5.0	1.2	6.7	3.0	2.6
22.....	6.0	23.8	20.0	9.8	4.4	6.7	4.2	4.6	1.2	6.0	3.0	2.5
23.....	6.0	21.7	24.0	9.7	4.4	6.5	3.7	4.4	1.1	5.3	3.0	2.4
24.....	6.0	20.6	25.8	9.5	4.3	6.3	3.4	3.9	1.0	4.7	3.0	2.4
25.....	6.0	19.0	23.9	9.6	4.3	5.7	2.6	3.6	1.0	4.7	3.3	2.4
26.....	6.6	21.0	20.8	9.9	4.4	5.3	2.3	3.2	0.9	4.6	3.2	2.3
27.....	6.3	24.3	18.6	9.3	4.6	5.2	3.8	3.1	0.9	4.6	2.7	2.3
28.....	6.1	28.3	16.8	9.3	4.7	5.2	3.2	3.0	0.8	4.5	2.7	2.3
29.....	7.3		13.4	9.6	4.7	6.0	4.6	2.8	0.8	4.5	2.5	2.2
30.....	7.3		12.9	9.9	4.6	4.9	4.3	2.6	0.7	4.5	2.4	2.2
31.....	6.1		12.5		4.5		5.7	2.5		4.4		2.1
Means.	7.4	14.2	24.4	11.4	4.8	5.5	5.8	10.8	1.7	7.1	3.5	2.2

## RIVERS OF TEXAS—BRAZOS RIVER, BOOTH, TEX.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1904</b>												
1.....	4.2	1.4	3.5	2.3	2.3	4.1	3.3	3.4	3.3	2.5	2.6	3.8
2.....	4.1	1.4	3.5	3.4	3.4	3.6	3.2	3.4	3.3	2.5	2.5	3.8
3.....	3.8	1.4	3.5	3.3	4.2	3.6	3.2	3.3	3.2	2.4	2.4	2.2
4.....	3.6	1.4	3.4	3.2	5.5	3.5	3.2	3.3	3.2	2.4	2.4	2.4
5.....	3.5	1.4	3.3	3.2	14.5	3.5	3.8	3.2	2.8	2.3	2.3	2.4
6.....	3.4	1.4	3.3	4.6	21.0	3.4	4.7	3.2	2.8	2.3	2.3	2.6
7.....	3.3	1.4	3.2	4.4	23.9	3.4	4.4	2.8	2.7	3.7	2.2	2.6
8.....	3.2	1.4	2.8	1.1	27.4	3.3	5.6	2.7	2.7	3.5	2.2	2.7
9.....	2.6	1.4	2.7	4.4	29.7	3.2	5.3	2.6	2.6	3.4	1.8	2.4
10.....	2.5	1.4	2.7	4.7	30.2	3.5	6.5	2.6	2.6	3.4	1.7	2.2
11.....	2.4	1.4	2.6	4.9	29.8	3.6	6.3	3.3	2.6	3.4	1.7	3.1
12.....	2.2	1.4	2.6	3.2	24.3	3.7	5.6	4.4	2.5	3.3	1.6	3.4
13.....	1.8	1.4	2.5	3.4	19.5	4.7	5.8	4.2	2.5	3.3	1.5	3.6
14.....	1.7	1.4	2.5	3.4	15.7	4.4	6.0	3.7	2.4	3.2	1.5	3.7
15.....	1.6	1.4	2.5	3.3	12.7	5.8	4.8	3.4	2.4	3.2	1.4	3.8
16.....	1.5	1.4	2.4	3.3	12.0	5.6	4.6	3.2	2.4	3.4	1.4	4.0
17.....	1.4	1.1	2.4	3.1	10.8	5.3	4.6	3.6	2.3	3.6	1.3	4.2
18.....	1.4	2.5	2.4	3.2	10.3	5.6	4.5	3.7	2.3	3.7	1.3	4.4
19.....	1.4	2.1	2.4	2.8	9.6	5.8	4.4	4.6	2.2	4.0	1.2	4.5
20.....	1.4	3.3	2.3	2.6	8.8	6.0	4.4	4.4	1.7	2.8	1.2	4.6
21.....	1.4	3.2	2.3	2.5	7.5	4.7	4.3	4.3	1.7	2.6	1.4	4.8
22.....	1.4	4.6	2.3	2.5	6.4	4.5	4.3	4.2	1.7	2.5	1.7	5.1
23.....	1.4	4.4	2.2	2.4	5.6	4.4	4.2	4.2	1.8	2.4	2.0	5.3
24.....	1.3	4.2	2.2	2.4	5.5	4.3	3.8	3.7	2.0	2.4	2.7	5.5
25.....	1.3	3.6	1.7	2.4	5.3	4.2	3.6	3.6	2.8	2.3	2.5	5.6
26.....	1.3	3.4	1.7	2.4	4.8	3.7	3.6	3.5	2.6	2.2	2.4	5.8
27.....	1.3	3.3	1.7	2.3	4.6	3.7	3.5	3.4	2.5	2.2	2.4	6.1
28.....	1.3	2.7	1.6	2.3	4.5	3.5	3.5	3.4	2.5	2.5	2.3	6.2
29.....	1.3	2.5	1.6	2.3	4.3	3.4	3.4	3.4	2.4	2.4	2.3	6.2
30.....	1.3	.....	1.6	2.3	4.2	3.3	3.4	3.4	2.4	2.3	2.2	6.4
31.....	1.3	.....	1.6	.....	4.1	.....	3.3	3.3	.....	2.2	.....	6.1
Means.	2.1	2.2	2.5	3.2	12.0	4.2	4.4	3.5	2.5	2.8	1.9	4.2

## RIVERS OF TEXAS—COLORADO RIVER, BALLINGER, TEX.

<b>1903</b>												
1.....							2.0	1.4	4.3	2.6	1.3	1.2
2.....							1.8	1.4	3.2	2.0	1.3	1.2
3.....							1.8	1.9	2.4	2.9	1.6	1.3
4.....							1.8	1.7	2.0	2.5	1.8	1.2
5.....							1.7	1.5	1.9	2.1	1.6	1.2
6.....							1.7	1.5	1.8	3.2	1.6	1.2
7.....							1.7	1.4	1.8	2.0	1.4	1.2
8.....							1.6	1.3	1.5	2.8	1.4	1.0
9.....							1.5	1.3	1.4	2.4	1.3	1.0
10.....							1.5	0.9	1.3	2.2	1.3	1.0
11.....							1.5	0.9	2.3	2.0	1.3	1.0
12.....							1.5	0.8	2.0	1.9	1.3	1.0
13.....							1.4	0.7	2.0	1.8	1.3	1.0
14.....							1.4	1.5	2.3	1.8	1.3	1.0
15.....							1.4	1.4	2.0	1.6	1.4	1.0
16.....							1.4	1.3	2.1	1.6	1.4	1.2
17.....							1.4	1.3	2.0	1.5	1.4	1.2
18.....							1.4	1.3	1.9	1.5	1.3	1.2
19.....							1.4	1.3	1.8	1.5	1.5	1.0
20.....							1.3	1.3	1.6	1.5	1.3	1.0
21.....							1.3	1.2	1.5	1.5	1.5	1.0
22.....							1.9	1.0	1.5	1.5	1.4	1.0
23.....							1.8	1.0	1.2	1.5	1.5	1.0
24.....							1.8	1.0	1.2	1.4	1.4	1.0
25.....							1.7	1.0	1.2	1.4	1.3	1.0
26.....							1.6	1.0	1.2	1.4	1.3	1.0
27.....							1.5	1.0	1.2	1.3	1.3	1.0
28.....							1.5	1.0	1.2	1.3	1.4	1.0
29.....							1.4	1.0	1.4	1.3	1.2	1.0
30.....							1.5	1.0	13.0	1.3	1.2	1.0
31.....							1.4	2.3	.....	1.3	.....	1.0
Means							1.6	1.2	2.2	1.8	1.4	1.1

## DESCRIPTION OF RIVER GAGES, ETC.

723

## RIVERS OF TEXAS—COLORADO RIVER, BALLINGER, TEX.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	1.0	1.5	1.2	1.0	1.0	1.8	3.0	1.9	1.6	1.8	2.0	1.5
2.....	1.0	1.0	1.2	1.0	1.0	1.6	2.6	1.9	1.5	1.6	1.9	1.5
3.....	1.0	1.0	1.0	1.4	1.4	1.4	2.0	1.8	1.6	1.6	1.8	1.5
4.....	1.0	1.0	1.0	1.8	2.8	1.0	3.0	1.8	1.8	1.6	1.9	1.5
5.....	1.0	1.5	1.0	1.9	2.0	1.4	2.0	2.0	1.8	1.6	1.8	1.6
6.....	1.0	1.0	1.0	1.0	3.0	4.0	2.0	2.0	2.0	1.4	1.8	1.6
7.....	1.0	1.0	1.0	1.2	2.0	2.0	2.0	2.0	3.4	1.4	1.7	1.6
8.....	1.0	1.0	1.0	1.0	2.0	1.8	1.8	4.0	2.7	1.4	1.7	1.5
9.....	1.0	1.0	1.0	1.0	2.0	1.6	1.8	3.8	1.8	1.4	1.7	1.5
10.....	1.0	1.0	1.0	1.0	1.8	1.4	1.6	3.8	1.4	1.3	1.7	1.5
11.....	0.9	1.0	1.0	1.0	1.8	1.4	1.6	2.0	1.4	1.3	1.7	1.5
12.....	0.9	1.0	1.0	1.0	1.7	4.0	1.6	2.0	1.4	1.3	1.7	1.5
13.....	0.9	1.0	1.0	1.0	1.6	3.0	1.5	2.0	1.2	1.3	1.6	1.5
14.....	0.9	1.0	1.0	2.0	1.8	2.4	1.4	1.8	1.2	1.3	1.6	1.5
15.....	0.9	1.0	1.0	2.0	1.8	2.1	1.4	1.8	1.1	1.4	1.6	1.5
16.....	0.9	1.0	1.0	1.8	1.8	2.0	1.4	1.8	1.1	5.0	1.6	1.5
17.....	0.9	1.0	1.2	1.8	1.8	2.0	1.4	1.7	1.1	4.0	1.6	1.5
18.....	0.9	1.4	1.0	1.8	4.0	1.9	1.4	1.7	1.0	3.8	1.6	1.5
19.....	0.9	1.4	1.0	1.8	3.0	1.4	1.4	1.6	1.0	2.6	1.6	1.5
20.....	1.0	1.4	1.0	1.6	2.8	1.3	1.8	1.6	3.0	2.7	1.6	1.5
21.....	1.9	1.7	1.0	1.0	2.8	4.3	1.8	1.8	4.0	2.5	1.5	1.5
22.....	1.9	1.6	1.0	1.3	2.6	3.2	1.6	1.8	6.4	2.0	1.5	1.5
23.....	1.9	1.6	1.0	1.0	2.0	3.0	1.6	1.6	10.0	2.0	1.5	1.5
24.....	1.9	1.5	1.0	2.0	2.0	2.6	2.0	1.6	4.6	1.8	1.5	1.5
25.....	1.8	1.5	1.0	1.8	2.0	2.4	3.0	1.8	3.8	1.9	1.5	1.5
26.....	1.8	1.4	1.0	1.3	2.6	9.0	2.6	1.7	4.0	2.0	1.5	1.5
27.....	1.8	1.4	1.0	1.2	2.5	16.0	2.0	1.6	2.8	2.0	1.5	1.5
28.....	1.8	1.4	1.0	1.0	2.0	11.0	2.0	1.5	2.0	2.0	1.5	1.5
29.....	1.8	1.4	1.0	1.0	2.0	7.0	1.9	1.5	2.0	1.9	1.5	1.4
30.....	1.6		1.0	1.0	2.0	4.0	1.8	1.4	1.8	1.8	1.5	1.4
31.....	1.6		1.0		1.9		1.8	1.6		2.0		1.4
Means	1.3	1.2	1.0	1.4	2.1	3.4	1.9	2.0	2.5	2.0	1.6	1.5

## RIVERS OF TEXAS—COLORADO RIVER, AUSTIN, TEX.

1903												
1.....							2.3	3.4	1.2	1.4	1.4	1.2
2.....							2.3	3.2	1.2	1.5	1.4	1.2
3.....							2.3	3.0	1.2	8.6	1.4	1.2
4.....							2.1	2.6	2.5	10.2	1.4	1.2
5.....							4.3	2.5	2.3	9.7	1.5	1.2
6.....							3.2	2.4	2.2	4.5	1.6	1.2
7.....							3.0	2.3	2.0	4.7	1.7	1.2
8.....							2.7	2.3	1.0	2.7	1.7	1.2
9.....							2.5	2.0	2.0	4.3	1.7	1.2
10.....							2.3	1.9	1.9	3.7	1.7	1.2
11.....							2.2	1.7	1.8	3.4	1.6	1.2
12.....							2.1	1.6	1.6	3.1	1.5	1.3
13.....							2.0	1.6	1.5	2.8	1.5	1.2
14.....							1.9	1.5	1.4	2.7	1.5	1.2
15.....							1.9	1.5	1.4	2.5	1.4	1.2
16.....							1.8	1.5	1.4	2.3	1.4	1.2
17.....							1.8	2.4	1.3	2.3	1.4	1.2
18.....							1.8	2.2	1.3	2.2	1.4	1.2
19.....							1.8	2.0	3.0	2.0	1.4	1.2
20.....							1.6	1.8	3.2	1.9	1.4	1.2
21.....							1.5	1.7	3.5	1.8	1.4	1.2
22.....							1.5	1.7	2.2	1.7	1.4	1.2
23.....							1.4	1.6	2.2	1.7	1.4	1.2
24.....							1.3	1.5	2.0	1.7	1.4	1.2
25.....							1.3	1.4	1.8	1.7	1.4	1.2
26.....							1.4	1.4	1.5	1.6	1.4	1.2
27.....							1.4	1.3	1.5	1.4	1.4	1.2
28.....							2.5	1.5	1.7	1.4	1.4	1.2
29.....							2.3	1.4	1.7	1.4	1.3	1.2
30.....							4.0	1.3	1.6	1.4	1.2	1.2
31.....							6.6	1.2		1.3		1.2
Means							2.3	1.9	1.8	3.0	1.5	1.2

## DESCRIPTION OF RIVER GAGES, ETC.

## RIVERS OF TEXAS—COLORADO RIVER, AUSTIN, TEX.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	1.2	1.2	1.4	1.5	1.9	5.9	6.7	2.0	0.8	2.4	2.5	1.3
2.....	1.2	1.2	1.4	1.4	1.7	3.8	5.0	1.9	0.8	2.3	2.0	1.3
3.....	1.2	1.2	1.3	1.3	1.6	3.2	4.3	1.6	0.8	2.2	2.0	1.3
4.....	1.2	1.2	1.3	1.3	4.3	2.8	4.7	2.1	0.7	2.0	1.8	1.3
5.....	1.2	1.2	1.3	1.6	6.3	2.6	4.9	2.2	5.5	1.8	1.7	1.4
6.....	1.2	1.2	1.2	1.5	6.5	2.2	2.8	1.3	4.8	1.7	1.7	1.4
7.....	1.2	1.2	1.2	1.3	5.7	9.4	2.4	1.9	3.1	1.6	1.7	1.4
8.....	1.2	2.6	1.2	1.2	4.3	9.7	2.5	5.6	3.0	1.5	1.6	1.5
9.....	1.2	2.7	1.2	1.2	5.2	8.7	2.2	3.3	3.0	1.5	1.5	1.5
10.....	1.2	2.4	1.2	1.1	3.5	6.5	2.1	2.7	2.5	1.4	1.5	1.5
11.....	1.2	2.2	1.2	1.1	3.9	5.6	2.1	2.3	2.0	1.4	1.4	1.4
12.....	1.2	1.9	1.2	1.1	2.5	4.0	1.9	1.9	2.0	1.3	1.4	1.3
13.....	1.2	1.7	1.2	1.0	2.3	3.2	1.8	1.8	4.9	1.3	1.4	1.3
14.....	1.2	1.6	1.2	1.0	2.0	3.4	1.7	1.6	2.9	1.2	1.4	1.3
15.....	1.2	1.5	1.0	1.0	1.9	3.0	1.8	2.0	4.5	1.1	1.4	1.3
16.....	1.2	1.4	1.0	0.9	1.9	2.7	1.5	1.8	3.6	1.0	1.3	1.3
17.....	1.2	1.3	1.2	0.9	2.0	2.5	1.4	1.8	3.0	1.0	1.3	1.3
18.....	1.2	1.3	1.1	0.9	1.9	2.4	1.3	1.7	2.4	1.3	1.3	1.2
19.....	1.2	1.4	1.1	0.9	1.7	2.4	1.2	1.6	2.4	1.5	1.3	1.2
20.....	1.2	1.5	1.1	0.9	3.5	2.3	1.1	1.5	2.0	1.4	1.3	1.2
21.....	1.2	1.5	1.4	0.9	2.8	2.3	1.1	1.5	1.9	1.2	1.3	1.2
22.....	1.2	1.5	1.6	1.6	2.4	2.1	1.1	1.7	1.8	1.1	1.3	1.3
23.....	1.2	1.5	2.0	1.7	2.5	2.6	1.1	1.5	1.7	2.3	1.3	1.3
24.....	1.2	1.7	1.7	1.6	2.3	2.7	1.6	1.3	1.7	2.1	1.3	1.3
25.....	1.2	1.9	1.6	4.0	2.1	2.8	1.3	1.1	1.7	2.1	1.3	1.2
26.....	1.2	1.7	1.4	2.8	2.0	3.2	1.6	1.0	4.3	2.2	1.3	1.3
27.....	1.2	1.6	1.3	2.2	2.0	2.7	1.4	1.0	3.2	5.1	1.3	1.2
28.....	1.2	1.5	1.2	1.7	1.8	2.3	1.2	1.0	3.0	6.5	1.2	1.2
29.....	1.2	1.4	1.3	1.8	1.8	2.2	1.3	0.9	2.8	4.4	1.2	1.2
30.....	1.2		1.5	1.7	3.8	2.0	1.9	0.9	2.8	3.3	1.3	1.2
31.....	1.2		1.6		3.0		1.9	0.8		2.8		1.2
Means.	1.2	1.6	1.3	1.4	2.9	3.7	2.2	1.8	2.7	2.1	1.5	1.3

## RIVERS OF TEXAS—COLORADO RIVER, COLUMBUS, TEX.

1903												
1.....							8.6	34.9	7.3	7.3	7.0	5.6
2.....							8.7	32.2	7.3	7.3	7.0	5.5
3.....							22.7	17.7	7.2	7.1	6.7	5.5
4.....							16.0	16.0	7.1	7.1	6.7	5.5
5.....							11.7	15.3	7.1	22.5	7.6	5.4
6.....							10.0	13.5	7.0	26.0	7.5	5.4
7.....							16.6	12.6	7.0	21.0	6.0	6.0
8.....							13.5	10.9	8.0	15.8	6.0	6.0
9.....							12.5	10.4	8.1	13.0	6.0	6.0
10.....							11.1	10.0	7.9	11.4	6.0	6.0
11.....							10.0	9.6	8.5	12.7	6.0	6.5
12.....							9.3	9.4	8.2	12.6	6.0	9.5
13.....							8.9	9.1	8.0	11.5	6.0	8.8
14.....							8.6	8.9	7.7	11.4	5.8	6.8
15.....							8.5	8.7	7.5	9.0	5.7	6.5
16.....							8.4	8.6	7.3	8.8	6.0	6.5
17.....							8.3	8.4	7.1	8.6	6.0	6.5
18.....							8.0	8.2	7.0	8.4	6.0	6.5
19.....							7.8	8.2	7.0	8.3	5.8	6.0
20.....							7.7	8.0	7.0	8.0	6.0	6.0
21.....							7.7	8.9	6.9	8.0	6.0	6.0
22.....							7.6	8.5	9.3	8.2	5.9	6.0
23.....							7.5	8.3	10.2	8.0	5.9	6.0
24.....							7.5	8.1	9.3	7.8	5.8	6.0
25.....							7.5	8.0	8.6	7.5	5.7	6.5
26.....							7.3	7.9	8.2	7.3	5.6	6.5
27.....							7.2	7.8	8.0	6.9	5.6	6.5
28.....							10.7	7.6	7.8	6.5	5.6	6.0
29.....							9.5	7.5	7.5	6.5	5.6	6.0
30.....							24.0	7.4	7.5	6.4	5.6	6.0
31.....							32.9	7.3		6.2		6.0
Means.							11.2	11.2	7.8	10.2	6.1	6.8

## RIVERS OF TEXAS—COLORADO RIVER, COLUMBUS, TEX.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....	6.0	6.0	6.1	5.6	7.5	7.8	8.7	6.4	6.0	9.3	11.4	6.0
2.....	6.0	6.0	6.0	5.5	7.3	9.6	8.1	6.4	6.0	9.1	10.1	6.0
3.....	6.0	6.0	5.8	6.4	8.0	13.0	16.7	6.8	5.8	9.0	9.1	6.0
4.....	6.0	5.5	5.7	8.0	19.0	12.7	14.9	7.4	6.0	8.2	8.6	6.0
5.....	6.0	5.5	5.7	7.7	28.0	10.0	13.6	7.4	5.8	8.0	8.1	6.1
6.....	6.0	5.5	5.6	7.7	26.5	9.9	12.4	7.0	5.8	7.8	7.8	5.9
7.....	6.0	5.5	5.6	6.1	22.8	9.4	10.4	6.7	6.2	7.6	7.6	5.9
8.....	6.0	5.5	5.5	6.0	20.8	20.0	10.6	13.3	13.0	7.2	7.5	5.9
9.....	6.0	5.5	5.4	5.9	15.2	23.7	9.3	13.5	11.4	7.2	7.3	5.9
10.....	6.0	5.5	5.5	5.7	14.4	26.2	8.6	11.6	10.2	6.8	7.0	6.0
11.....	6.0	6.8	5.5	5.7	15.2	21.5	8.3	12.5	10.5	6.8	6.9	6.0
12.....	5.8	7.2	5.5	5.7	12.6	17.8	8.0	10.9	9.2	6.6	6.9	6.4
13.....	5.8	7.5	5.5	5.6	10.2	15.5	7.7	9.5	8.5	6.5	6.6	6.2
14.....	5.5	7.0	5.5	5.6	9.5	13.0	7.5	8.5	8.1	6.4	6.6	6.2
15.....	5.5	6.5	5.4	5.6	9.0	11.8	7.4	8.0	8.3	6.3	6.5	6.0
16.....	5.5	6.3	5.4	5.5	8.4	10.8	7.3	7.5	11.2	6.3	6.5	6.0
17.....	5.5	6.2	5.5	5.4	10.9	10.4	7.0	7.2	9.7	6.2	6.5	6.0
18.....	5.5	6.1	5.5	5.4	10.0	9.6	6.9	7.2	11.7	6.1	6.4	6.0
19.....	5.5	6.5	5.4	5.4	9.4	9.0	6.9	7.5	10.5	6.1	6.4	6.0
20.....	5.5	6.2	5.4	5.4	8.9	8.5	6.9	7.4	9.4	6.1	6.4	6.0
21.....	5.5	6.3	5.4	5.4	7.9	8.4	7.5	7.3	8.6	6.0	6.4	6.0
22.....	5.5	6.0	5.4	5.4	7.5	8.4	7.0	6.9	10.0	6.0	6.6	6.0
23.....	5.5	6.0	5.4	5.5	9.0	8.6	6.8	7.5	11.6	6.0	6.5	6.6
24.....	6.0	6.0	5.4	5.5	8.9	8.8	7.3	6.5	8.6	5.9	6.4	6.0
25.....	6.0	6.0	5.4	5.5	8.2	10.0	10.0	6.5	7.9	6.8	6.4	6.0
26.....	6.0	6.0	5.8	6.0	8.0	8.9	6.5	6.5	7.4	11.5	6.4	19.5
27.....	6.0	6.0	6.2	11.3	8.1	8.5	7.2	6.4	7.1	11.6	6.3	16.0
28.....	6.0	6.0	6.9	9.2	7.8	8.5	6.8	6.3	11.1	9.1	6.3	9.8
29.....	6.0	6.3	5.8	8.7	7.5	9.9	6.6	6.4	12.2	15.2	6.3	7.5
30.....	6.0		5.6	8.0	7.1	9.0	6.5	6.0	10.2	14.6	6.0	7.0
31.....	6.0		5.6		7.5		6.5	6.0		12.7		6.7
Means.	5.8	6.1	5.6	6.3	11.6	12.0	8.6	7.9	8.9	8.0	7.1	7.0

## RIVERS OF TEXAS—GUADALUPE RIVER, GONZALES, TEX.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1.....											0.9	0.6
2.....											0.8	0.7
3.....											0.8	0.6
4.....											0.8	0.6
5.....											0.7	0.7
6.....											0.7	0.7
7.....											0.7	0.6
8.....											0.6	0.6
9.....											0.6	0.6
10.....											0.6	0.6
11.....											0.6	0.6
12.....											0.5	0.6
13.....											0.5	0.7
14.....											0.5	0.7
15.....											0.6	0.6
16.....											0.6	0.6
17.....										0.6	0.6	0.6
18.....										0.5	0.6	0.6
19.....										0.5	0.6	0.6
20.....										0.6	0.6	0.6
21.....										0.5	0.7	0.7
22.....										0.7	0.8	0.7
23.....										0.5	0.7	0.7
24.....										0.5	0.6	0.7
25.....										1.1	0.6	0.6
26.....										5.3	0.6	1.7
27.....										2.2	0.6	0.7
28.....										1.0	0.6	0.6
29.....										1.7	0.6	0.5
30.....										1.2	0.7	0.5
31.....										1.0		0.6
Means.										1.2	0.6	0.7

## DESCRIPTION OF RIVER GAGES, ETC.

## RIVERS OF TEXAS—GUADALUPE RIVER, VICTORIA, TEX.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1											2.5	1.5
2											2.2	1.5
3											2.0	1.5
4											1.9	1.5
5											1.8	1.5
6											1.7	1.6
7											1.6	1.7
8											1.5	1.6
9											1.5	1.5
10											1.5	1.5
11											1.4	1.5
12											1.4	1.5
13											1.3	1.6
14											1.3	1.5
15											1.4	1.5
16											1.4	1.5
17											1.4	1.5
18											1.4	1.5
19											1.5	1.4
20											15.0	1.6
21											7.3	1.5
22											2.3	1.5
23											1.8	1.5
24											1.7	1.5
25											1.6	1.5
26											1.6	1.8
27											1.5	17.2
28											1.4	16.5
29											1.5	12.6
30											1.5	7.4
31												4.5
Means											2.3	3.2

## WACCAMAW RIVER SYSTEM—WACCAMAW RIVER, CONWAY, S. C.

1900												
1	2.3	6.2	6.5	4.7	6.4	2.5	2.9	2.3	1.9	2.2	2.5	2.0
2	2.1	6.2	6.7	4.6	6.7	2.4	3.1	2.6	1.9	2.1	2.4	2.2
3	1.9	6.2	6.7	4.5	6.8	2.5	3.1	2.4	1.9	2.1	2.3	2.3
4	1.9	6.2	6.7	4.4	6.9	2.5	3.0	2.2	1.7	2.0	2.3	2.7
5	1.9	6.2	6.5	4.3	6.8	2.3	2.6	2.3	1.4	2.0	1.9	1.7
6	1.9	6.2	6.5	4.2	6.7	2.4	2.3	2.4	1.1	1.7	2.4	2.5
7	2.0	6.1	6.4	4.2	6.6	2.3	2.2	2.2	1.3	1.4	2.9	2.0
8	2.3	6.1	6.3	4.0	6.4	1.7	1.0	1.8	1.4	1.5	2.9	2.5
9	2.0	5.9	6.2	4.0	6.2	1.4	1.2	1.5	1.3	1.8	2.2	2.5
10	2.1	5.8	6.2	4.0	6.0	1.4	0.9	1.7	1.5	2.1	1.9	2.0
11	1.6	6.0	6.2	3.9	5.7	1.4	1.2	1.8	1.7	2.3	2.3	2.5
12	1.9	6.1	6.0	3.8	5.5	1.5	0.6	1.9	1.7	2.5	2.2	2.3
13	1.3	6.1	6.0	3.7	5.2	1.8	1.2	1.6	1.5	2.8	2.0	2.3
14	1.7	6.2	6.0	3.4	4.8	1.8	1.2	1.6	1.4	2.5	1.8	2.2
15	1.8	6.3	5.9	3.4	4.3	1.9	1.4	1.6	1.8	2.1	1.6	2.3
16	2.0	6.2	5.9	3.2	3.9	1.9	1.8	1.7	1.7	2.0	1.4	2.1
17	2.2	6.2	5.8	3.2	3.5	2.3	1.7	1.7	1.4	2.0	1.8	2.0
18	2.7	6.2	5.6	3.1	3.2	2.4	1.7	1.5	1.0	2.1	1.7	1.8
19	3.1	6.1	5.4	3.2	3.1	2.6	1.6	1.4	1.4	1.9	0.9	1.7
20	3.5	6.0	5.3	3.1	2.9	2.7	1.2	1.2	1.5	1.7	0.5	1.8
21	4.0	6.0	5.1	3.4	2.8	2.7	1.0	0.9	1.4	1.6	0.4	2.8
22	4.3	6.1	4.8	3.9	2.6	2.6	1.0	0.9	1.4	1.5	0.4	2.7
23	4.8	6.2	4.6	4.2	2.4	2.3	0.7	1.0	1.0	1.2	0.7	3.0
24	5.1	6.2	4.4	4.4	2.5	2.7	0.6	1.1	0.8	0.8	0.9	3.2
25	5.3	6.3	4.4	4.5	1.0	4.4	0.9	1.1	1.2	0.6	1.1	3.2
26	5.6	6.3	3.6	4.6	1.9	4.2	1.2	0.9	1.4	1.0	1.9	3.0
27	5.7	6.4	3.7	5.2	2.2	4.0	1.3	0.9	1.4	1.2	1.1	3.0
28	5.9	6.3	4.5	5.6	2.4	3.5	1.4	0.9	1.3	2.0	1.4	3.1
29	6.0		4.8	6.0	2.6	3.0	1.5	1.1	1.7	2.6	2.0	3.1
30	6.1		4.8		2.6	2.6	1.8	1.3	1.9	2.5	2.0	3.2
31	6.2		4.7		2.6		2.1	1.8		2.6		3.6
Means	3.3	6.2	5.6	4.1	4.3	2.5	1.6	1.6	1.5	1.9	1.7	2.5

## WACCAMAW RIVER SYSTEM—WACCAMAW RIVER, CONWAY, S. C.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1901												
1.....	4.0	4.0	5.0	5.6	5.0	5.4	5.6	8.4	5.7	5.6	3.2	1.8
2.....	4.2	3.9	5.1	5.6	5.1	6.0	5.5	8.2	5.6	5.9	3.0	2.0
3.....	5.0	3.9	5.0	5.8	5.1	6.4	5.5	8.0	5.5	6.1	2.9	2.4
4.....	5.4	4.0	5.0	6.0	5.1	6.7	5.3	7.7	5.5	6.3	2.9	2.0
5.....	5.7	4.0	4.9	6.1	5.0	6.8	5.2	7.5	5.5	6.4	2.8	2.0
6.....	5.8	3.9	4.8	6.1	4.9	6.7	5.0	7.2	5.4	6.5	2.7	2.0
7.....	5.8	3.9	4.6	6.1	4.4	6.6	4.8	7.0	5.4	6.6	2.5	1.9
8.....	5.8	4.0	4.5	6.2	4.0	6.4	4.6	6.8	5.3	6.7	2.3	1.7
9.....	5.7	4.1	4.4	6.2	3.6	6.2	4.4	6.5	5.2	6.8	2.2	1.4
10.....	5.7	4.3	4.2	6.2	3.3	5.9	4.2	6.3	5.1	6.9	2.0	1.6
11.....	5.7	4.3	4.4	6.1	3.0	5.6	4.0	6.0	5.1	6.9	2.2	1.1
12.....	5.7	4.6	4.6	6.1	2.9	5.3	3.7	5.7	4.9	7.0	2.0	1.3
13.....	5.6	4.8	4.5	6.1	2.7	5.0	3.8	5.4	4.7	7.0	1.5	1.4
14.....	5.5	4.9	4.5	6.3	2.5	5.0	3.9	5.2	4.4	7.0	1.7	1.8
15.....	5.4	5.0	4.4	6.5	2.5	5.2	4.0	4.8	4.2	6.9	1.9	2.5
16.....	5.3	5.0	4.3	6.5	2.3	5.5	4.1	4.6	3.9	6.8	2.0	2.9
17.....	5.2	5.0	4.2	6.4	2.6	5.5	4.3	4.6	3.6	6.6	2.0	2.7
18.....	5.2	5.0	4.1	6.4	2.9	6.0	4.4	4.8	3.4	6.6	1.8	2.7
19.....	5.0	5.0	4.0	6.3	2.8	6.0	4.4	4.9	3.3	6.4	1.7	2.7
20.....	5.0	5.0	4.0	6.3	3.0	5.9	4.7	4.9	3.5	6.2	2.0	2.8
21.....	5.0	5.0	4.5	6.2	3.0	5.7	5.3	4.8	3.6	5.9	2.2	2.8
22.....	4.8	5.1	4.9	6.0	3.5	5.6	5.8	4.7	3.6	5.6	2.2	2.8
23.....	4.6	5.0	5.0	5.9	4.4	5.4	6.1	4.6	3.6	5.3	2.3	2.8
24.....	4.5	4.9	5.1	5.8	5.1	5.3	6.4	4.6	3.6	4.9	2.0	2.8
25.....	4.5	4.8	5.2	5.6	5.1	5.3	6.7	4.9	3.8	4.6	1.0	2.8
26.....	4.5	4.8	5.3	5.4	4.8	5.3	7.1	5.2	3.9	4.3	1.3	2.9
27.....	4.2	4.9	5.5	5.3	4.5	5.4	7.8	5.5	4.0	4.0	1.8	3.0
28.....	4.1	5.0	5.6	5.1	4.5	5.5	8.4	5.6	4.5	3.8	2.0	3.0
29.....	4.0		5.6	5.0	4.6	5.6	8.7	5.7	5.0	3.6	1.9	3.5
30.....	4.0		5.6	5.0	4.7	5.6	8.7	5.8	5.3	3.4	1.6	3.9
31.....	4.0		5.6		5.0		8.6	5.7		3.4		3.7
Means.	5.0	4.6	4.8	5.9	3.9	5.8	5.5	5.9	4.5	5.8	2.1	2.4
1902												
1.....	3.7	3.3	5.8	4.8	2.4	1.8	1.3	1.2	1.7	1.9	1.3	3.3
2.....	3.8	3.8	5.9	4.6	2.2	1.6	1.2	1.0	1.6	1.7	1.5	3.4
3.....	3.9	4.0	6.0	4.5	2.2	1.4	1.7	0.9	1.5	2.1	1.9	3.7
4.....	3.8	4.1	6.0	4.4	2.2	1.4	1.8	1.1	1.6	2.2	2.0	3.7
5.....	3.9	3.3	6.1	4.3	2.2	1.3	1.2	1.6	1.7	2.1	1.9	4.7
6.....	4.0	3.4	6.2	4.2	2.2	1.5	1.2	1.9	2.2	1.9	2.0	5.0
7.....	4.1	3.5	6.3	4.2	2.2	2.0	1.5	1.6	1.9	1.8	2.1	5.1
8.....	4.2	3.6	6.5	4.2	2.3	1.5	1.8	1.7	1.6	1.8	2.3	5.1
9.....	4.6	3.7	6.7	4.1	2.5	1.5	1.9	1.8	2.1	1.9	2.5	5.1
10.....	4.9	3.7	6.8	4.0	2.7	2.5	1.7	1.0	2.0	2.1	2.4	5.1
11.....	5.2	3.9	7.0	4.0	2.8	2.3	1.3	1.8	2.4	3.0	2.5	5.0
12.....	5.3	4.1	7.1	4.0	2.8	2.1	1.9	1.1	2.2	2.5	2.3	5.0
13.....	5.3	5.2	7.2	3.9	2.7	2.0	2.1	1.0	2.1	2.0	2.2	5.3
14.....	5.2	5.4	7.1	3.8	2.3	1.8	1.9	1.6	1.9	2.0	1.9	5.5
15.....	5.0	5.5	7.0	3.7	2.2	2.0	1.7	1.1	2.0	1.8	1.7	5.5
16.....	4.7	5.5	6.9	3.5	2.5	2.2	1.3	1.0	2.3	2.0	2.0	5.6
17.....	4.4	5.5	6.8	3.4	2.3	1.5	1.0	1.1	2.3	2.1	2.3	5.7
18.....	4.1	5.4	6.7	3.4	2.2	1.3	0.7	2.0	2.1	2.0	2.5	5.7
19.....	3.9	5.2	6.6	3.4	1.9	1.5	0.4	1.9	2.1	2.1	2.3	5.6
20.....	3.6	5.1	6.4	3.4	1.9	1.2	0.3	1.8	2.3	2.4	2.5	5.5
21.....	3.5	5.2	6.3	3.4	1.8	1.6	0.3	1.9	2.2	2.5	2.8	5.4
22.....	3.6	5.3	6.2	3.4	2.6	1.9	0.3	2.1	2.3	2.6	2.7	5.4
23.....	3.3	5.4	6.0	3.2	2.3	2.2	0.4	2.2	2.0	2.6	2.6	5.3
24.....	3.3	5.4	5.8	2.7	2.0	2.3	0.9	2.5	2.3	2.5	2.5	5.2
25.....	3.4	5.5	5.7	2.5	1.4	2.3	1.1	2.6	2.3	2.1	2.5	5.2
26.....	3.5	5.6	5.3	2.8	1.5	2.3	1.5	2.6	2.2	2.0	2.6	5.1
27.....	3.5	5.6	5.4	2.4	1.8	1.8	1.8	2.0	1.7	2.1	2.2	5.0
28.....	3.4	5.6	5.2	2.4	1.8	2.1	1.9	2.0	1.7	2.2	1.5	4.9
29.....	3.5		5.0	2.6	2.3	2.2	1.5	1.7	1.3	1.3	1.7	4.7
30.....	3.4		5.1	2.6	2.3	1.6	1.2	1.7	1.3	1.1	2.4	4.6
31.....	3.2		5.0		2.0		1.1	2.1		1.2		4.5
Means.	4.0	4.7	6.2	3.6	2.2	1.8	1.3	1.7	2.0	2.1	2.2	5.0

## WACCAMAW RIVER SYSTEM—WACCAMAW RIVER, CONWAY, S. C.—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>1903</b>												
1.....	4.3	4.7	6.7	6.1	4.0	2.7	2.8	1.6	5.3	2.0	1.8	1.8
2.....	4.2	4.6	6.6	6.4	3.9	2.7	2.7	1.6	5.1	1.6	1.4	1.5
3.....	4.3	4.4	6.4	6.7	3.9	2.8	2.6	1.6	5.0	1.5	1.2	1.4
4.....	4.3	4.3	6.3	6.9	3.9	2.6	2.3	1.7	4.8	1.8	1.2	1.2
5.....	4.3	4.2	6.1	6.9	3.8	2.3	2.2	1.7	4.5	1.7	1.8	1.4
6.....	4.4	4.0	5.9	6.8	3.9	2.1	2.2	1.5	4.4	1.8	1.8	1.8
7.....	4.4	3.8	5.7	6.8	4.0	1.9	2.1	1.5	4.2	1.8	2.0	1.8
8.....	4.3	4.0	5.6	6.7	4.1	1.8	2.5	1.8	4.2	1.8	2.2	2.0
9.....	4.2	4.3	5.6	6.6	4.2	2.0	2.4	1.8	4.2	1.6	2.4	2.0
10.....	4.2	4.4	5.6	6.5	4.4	2.3	2.5	1.8	4.0	1.4	2.4	2.0
11.....	4.3	4.6	5.6	6.3	4.5	2.8	2.6	1.6	4.0	1.6	2.6	1.4
12.....	4.7	4.8	5.5	6.2	4.4	3.0	2.5	1.3	3.8	2.8	2.6	1.4
13.....	5.0	5.0	5.5	6.1	4.3	3.0	2.6	1.8	3.8	2.8	2.4	1.8
14.....	5.1	5.1	5.4	5.9	4.2	3.1	2.6	2.4	3.8	2.8	2.2	1.4
15.....	5.2	5.3	5.4	5.7	4.1	2.9	2.9	2.5	3.6	2.6	2.0	1.2
16.....	5.3	5.4	5.3	5.5	4.0	2.8	2.8	2.8	3.4	2.4	2.2	1.0
17.....	5.3	5.7	5.1	5.3	3.9	2.9	2.8	3.0	3.6	2.2	1.6	0.8
18.....	5.3	6.0	5.0	5.1	3.6	3.0	2.8	3.1	3.4	2.1	1.4	0.8
19.....	5.3	6.1	4.9	5.0	3.3	3.0	2.8	3.2	3.0	1.8	1.0	1.0
20.....	5.3	6.2	4.8	4.9	3.0	3.0	2.4	3.8	3.0	2.4	1.4	1.2
21.....	5.4	6.4	4.7	4.8	2.7	2.9	2.3	4.9	3.2	2.6	1.8	1.0
22.....	5.5	6.5	4.6	4.8	2.6	2.8	2.1	5.4	3.4	2.6	1.8	0.6
23.....	5.4	6.6	4.7	4.7	2.0	3.0	2.1	5.6	3.6	2.8	2.0	0.8
24.....	5.4	6.7	5.0	4.6	2.4	3.0	2.2	5.8	3.6	2.6	1.8	1.0
25.....	5.3	6.7	5.1	4.6	2.4	3.0	2.6	5.9	3.2	2.4	1.7	1.2
26.....	5.2	6.7	5.3	4.5	2.4	3.1	2.4	6.0	3.2	2.8	2.0	1.4
27.....	5.2	6.6	5.2	4.5	2.6	3.2	2.6	5.9	2.8	2.6	2.4	1.8
28.....	5.1	6.7	5.1	4.4	2.7	3.1	2.4	5.9	2.4	2.6	2.2	1.8
29.....	5.1	.....	5.0	4.3	2.6	3.0	2.6	5.8	2.2	2.2	2.2	2.2
30.....	5.0	.....	5.1	4.1	2.4	2.8	2.3	5.6	2.2	2.0	2.0	2.0
31.....	4.8	.....	5.8	.....	2.4	.....	1.8	5.5	.....	2.0	.....	1.8
Means.....	4.9	5.4	5.4	5.6	3.4	2.8	2.5	3.4	3.7	2.2	1.9	1.4
<b>1904</b>												
1.....	1.6	4.0	4.8	6.0	2.4	2.4	2.0	2.8	4.6	6.0	2.8	2.0
2.....	1.6	4.1	4.8	5.8	2.6	2.2	2.0	2.8	4.4	5.8	2.4	2.0
3.....	1.6	4.0	4.8	5.6	2.8	2.0	1.8	2.6	3.8	5.7	2.2	2.2
4.....	1.7	4.0	5.0	5.4	2.8	2.0	2.2	2.8	3.4	5.5	2.4	1.8
5.....	2.0	3.8	5.2	5.2	2.8	1.8	2.4	4.6	3.2	5.4	2.6	1.6
6.....	2.2	3.8	5.3	5.0	2.6	2.0	2.2	4.8	3.0	5.0	2.4	1.8
7.....	2.4	3.6	5.4	4.8	2.6	2.0	2.0	4.8	3.2	4.8	2.6	2.2
8.....	2.6	3.4	5.8	4.6	2.6	1.8	1.8	4.8	3.4	4.6	2.8	2.4
9.....	2.2	3.2	5.8	4.4	2.4	1.6	1.8	4.6	3.6	4.4	2.8	2.2
10.....	2.4	3.2	5.8	4.0	2.2	1.4	1.6	5.0	3.6	4.2	2.6	2.4
11.....	2.4	3.4	5.6	3.6	2.0	1.8	1.4	5.2	3.6	3.8	2.4	2.2
12.....	1.8	3.4	5.6	3.4	1.6	2.4	1.6	5.2	3.6	3.6	2.2	2.6
13.....	1.8	3.6	5.4	3.0	1.6	2.8	1.7	5.2	3.4	3.2	3.0	2.6
14.....	1.6	3.6	5.4	3.0	1.6	3.0	2.0	5.2	4.0	3.0	1.0	2.6
15.....	1.0	3.8	5.4	3.0	1.6	2.8	2.4	5.0	6.4	3.0	1.4	2.8
16.....	1.2	3.6	5.2	2.8	1.8	2.8	2.6	5.2	7.4	3.0	1.6	2.6
17.....	1.2	3.6	5.2	2.2	2.4	2.8	2.4	5.4	7.6	2.8	1.8	2.4
18.....	1.4	3.6	5.2	3.0	2.4	2.6	2.4	5.6	7.2	2.6	2.0	2.0
19.....	1.8	3.5	5.2	2.8	2.4	2.4	2.4	5.6	6.8	2.2	2.2	1.8
20.....	1.8	3.4	5.0	2.6	2.2	2.4	2.0	5.8	6.6	2.2	2.2	1.4
21.....	1.8	3.4	5.0	2.8	2.2	2.2	1.8	5.8	6.6	2.8	2.0	1.2
22.....	2.0	4.0	5.0	2.8	2.4	1.8	2.0	5.6	6.6	2.6	1.8	1.0
23.....	2.4	4.2	5.0	2.8	2.5	1.6	1.8	5.4	6.4	2.2	2.0	1.2
24.....	2.4	4.4	5.2	2.6	2.2	1.6	1.6	5.6	6.6	2.0	2.4	1.4
25.....	2.6	4.4	5.6	2.4	2.0	1.4	1.4	5.4	6.6	2.2	2.2	1.4
26.....	3.0	4.5	5.8	2.2	1.8	1.4	1.6	5.4	6.6	2.4	2.0	1.6
27.....	3.2	4.6	5.8	1.8	1.6	1.6	1.8	5.4	6.4	2.4	2.0	2.2
28.....	3.4	4.5	5.8	1.6	1.6	1.6	2.0	5.4	6.4	2.8	1.8	2.6
29.....	3.6	4.6	6.0	2.0	2.0	1.8	2.0	5.2	6.2	2.6	2.0	2.2
30.....	3.6	.....	6.0	2.2	2.4	2.0	2.0	5.0	6.2	2.6	2.2	2.0
31.....	3.8	.....	6.0	.....	2.2	.....	2.6	4.8	.....	2.8	.....	1.8
Means.....	2.2	3.8	5.4	3.4	2.2	2.1	2.0	4.6	5.2	3.5	2.2	2.0







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